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1905/06

BULLETIN OF THE STATE UNIVERSITY OF IOWA

NEW SERIES No. 103

APRIL, 1905

THE  
STATE UNIVERSITY OF IOWA

IOWA CITY

ANNOUNCEMENT OF THE  
COLLEGE OF DENTISTRY

1905-1906



PUBLISHED BY THE UNIVERSITY  
IOWA CITY, IOWA  
1905

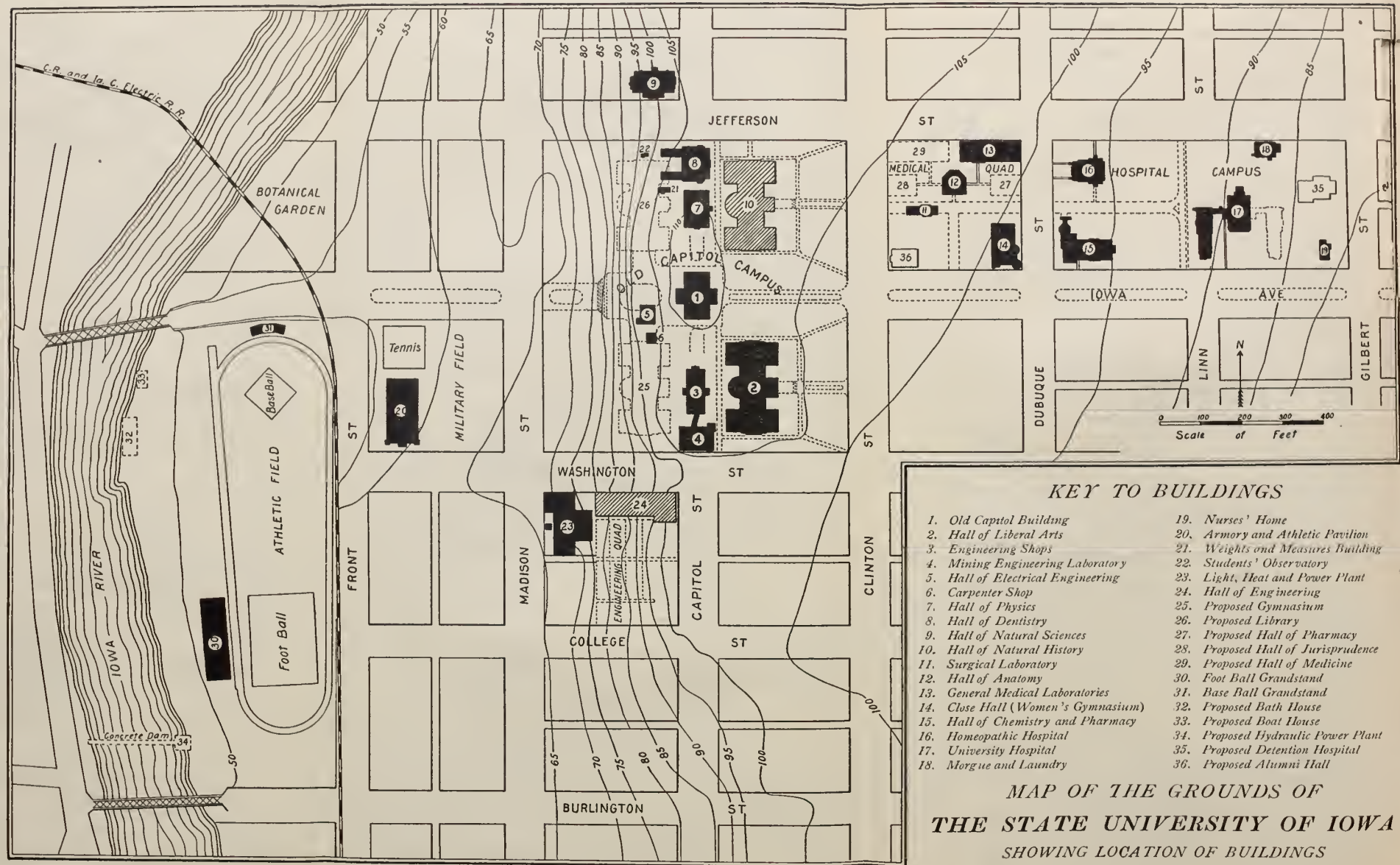
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UNIVERSITY OF ILLINOIS

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LIBRARY





### KEY TO BUILDINGS

- |                                    |                                    |
|------------------------------------|------------------------------------|
| 1. Old Capitol Building            | 19. Nurses' Home                   |
| 2. Hall of Liberal Arts            | 20. Armory and Athletic Pavilion   |
| 3. Engineering Shops               | 21. Weights and Measures Building  |
| 4. Mining Engineering Laboratory   | 22. Students' Observatory          |
| 5. Hall of Electrical Engineering  | 23. Light, Heat and Power Plant    |
| 6. Carpenter Shop                  | 24. Hall of Engineering            |
| 7. Hall of Physics                 | 25. Proposed Gymnasium             |
| 8. Hall of Dentistry               | 26. Proposed Library               |
| 9. Hall of Natural Sciences        | 27. Proposed Hall of Pharmacy      |
| 10. Hall of Natural History        | 28. Proposed Hall of Jurisprudence |
| 11. Surgical Laboratory            | 29. Proposed Hall of Medicine      |
| 12. Hall of Anatomy                | 30. Foot Ball Grandstand           |
| 13. General Medical Laboratories   | 31. Base Ball Grandstand           |
| 14. Close Hall (Women's Gymnasium) | 32. Proposed Bath House            |
| 15. Hall of Chemistry and Pharmacy | 33. Proposed Boat House            |
| 16. Homeopathic Hospital           | 34. Proposed Hydraulic Power Plant |
| 17. University Hospital            | 35. Proposed Detention Hospital    |
| 18. Morgue and Laundry             | 36. Proposed Alumni Hall           |

MAP OF THE GROUNDS OF  
THE STATE UNIVERSITY OF IOWA  
SHOWING LOCATION OF BUILDINGS







DENTAL BUILDING



A FRESHMAN LABORATORY





THE NORTH CLINIC ROOM

THE SOUTH CLINIC ROOM





THE  
STATE UNIVERSITY OF IOWA

IOWA CITY

ANNOUNCEMENT  
OF THE  
College of Dentistry

1905-1906



PUBLISHED BY THE UNIVERSITY  
IOWA CITY, IOWA  
1905

# ORGANIZATION

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The State University of Iowa embraces:

THE COLLEGE OF LIBERAL ARTS  
THE COLLEGE OF LAW  
THE COLLEGE OF MEDICINE  
THE COLLEGE OF HOMEOPATHIC MEDICINE  
THE COLLEGE OF DENTISTRY  
THE COLLEGE OF PHARMACY  
THE GRADUATE COLLEGE

The College of Liberal Arts embraces:

THE SCHOOL OF POLITICAL AND SOCIAL SCIENCE, which includes:

A COURSE IN COMMERCE  
A COURSE IN ADMINISTRATION  
A COURSE IN MODERN HISTORY  
A COURSE IN PRACTICAL PHILANTHROPY

THE SCHOOL OF APPLIED SCIENCE, which includes:

THE CIVIL ENGINEERING COURSE  
THE ELECTRICAL ENGINEERING COURSE  
THE MECHANICAL ENGINEERING COURSE  
THE MUNICIPAL AND SANITARY ENGINEERING COURSE  
THE MINING ENGINEERING COURSE  
THE COURSE IN FORESTRY

GROUPS OF STUDIES LEADING TO THE DEGREES OF A. B. AND B. S., AND ALSO OF A. B. AND LL. B., OF B. S. AND M. D., AND OF B. S. AND D. D. S.

The College of Law embraces:

A THREE YEARS' COURSE

The College of Medicine embraces:

A FOUR YEARS' COURSE  
A NURSES' TRAINING SCHOOL

The College of Homeopathic Medicine embraces:

A FOUR YEARS' COURSE  
A NURSES' TRAINING SCHOOL

The College of Dentistry embraces:

A THREE YEARS' COURSE  
A DENTAL ASSISTANT'S COURSE

The College of Pharmacy embraces:

A TWO YEARS' COURSE  
A GRADUATE COURSE.

The Graduate College embraces:

GRADUATE COURSES IN THIRTY DEPARTMENTS

Special announcements giving full information concerning any of these colleges or schools will be sent to any address upon request. In writing for announcements mention the college or school in which you are particularly interested. Address

GEORGE E. MACLEAN, President,  
Iowa City, Iowa.

# THE UNIVERSITY CALENDAR

1905-1906

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1905

<i>June 9, Friday</i>	Anniversary exercises of the forensic societies, 8 P. M.
<i>June 11, Sunday</i>	Baccalaureate address, 4 P. M.
<i>June 12, Monday</i>	Class Day exercises. Battalion drill and dress parade. Review by the Governor of Iowa, 4 P. M.
<i>June 13, Tuesday</i>	Alumni Day. Phi Beta Kappa address, 10 A. M. Alumni business meeting, 2 P. M. Alumni dinner, 6 P. M.
<i>June 14, Wednesday</i>	Commencement, all colleges, 10 A. M. President's reception, 4 P. M.
<i>June 15, 16, Thursday, Friday</i>	Examinations for admission to all colleges.
<i>June 17, Saturday</i>	Registration for the Summer Session begins, 9 A. M.
<i>June 19, Monday</i>	Instruction begins in the Summer Session, 7 A. M.
<i>July 27, 28, Thursday, Friday</i>	Examinations by the State Board of Educational Examiners.
<i>July 29, Saturday</i>	Summer Session ends.

## SUMMER VACATION

<i>Sept. 18, Monday</i>	Examinations for admission. Registration in all colleges at 2 P. M. Students may register by mail or in person at any time during the summer vacation.
<i>Sept. 21, Thursday</i>	Instruction begins in all colleges, 8 A. M. University Convocation; address by the President, 4 P. M.
<i>Nov. 17, Friday</i>	First quarter ends, 10 P. M.
<i>Nov. 20, Monday</i>	Second quarter begins, 8 A. M.
<i>Nov. 30, Thursday</i>	Thanksgiving Day, all exercises suspended.
<i>Dec. 21, Thursday</i>	Holiday recess begins, 10 P. M.



1906

<i>Jan. 3, Wednesday</i>	Work resumed in all colleges.
<i>Feb. 2, Friday</i>	First semester ends, 10 P. M.
<i>Feb. 5, Monday</i>	Second semester begins, 8 A. M.
<i>Feb. 21, Wednesday</i>	Annual lecture of the Sigma Xi, 8 P. M.
<i>Feb. 22, Thursday</i>	University convocation in celebration of Washington's birthday, 10:30 A. M.
<i>April 11, Wednesday</i>	Third quarter ends, 10 P. M. All exercises suspended until the following Tuesday.
<i>April 17, Tuesday</i>	Fourth quarter begins, 8 A. M.
<i>May 30, Wednesday</i>	Memorial Day; all exercises suspended.
<i>June 8, Friday</i>	Anniversary exercises of the forensic societies, 8 P. M.
<i>June 10, Sunday</i>	Baccalaureate address, 4 P. M.
<i>June 11, Monday</i>	Class day exercises. Battalion drill and dress parade. Review by the Governor of Iowa, 4 P. M.
<i>June 12, Tuesday</i>	Class play, 8 P. M. Alumni day. Phi Beta Kappa address, 10 A. M. Alumni business meeting, 2 P. M. Alumni dinner, 6 P. M.
<i>June 13, Wednesday</i>	Commencement, all colleges, 10 A. M. President's reception, 4 P. M.
<i>June 14, 15, Thursday, Friday</i>	Examinations for admission to all colleges.
<i>June 16, Saturday</i>	Registration for the Summer Session 9 A. M.
<i>June 18, Monday</i>	Instruction begins in the Summer Session, 7 A. M.
<i>July 26, 27, Thursday, Friday</i>	Examinations by the State Board of Educational Examiners.
<i>July 28, Saturday</i>	Summer Session ends.

## SUMMER VACATION

<i>Sept. 17, Monday</i>	Examinations for admission. Registration in all colleges, 2 P. M. Students may register by mail or in person at any time during the summer vacation.
<i>Sept. 20, Thursday</i>	Instruction begins in all colleges, 8 A. M. University convocation; address by the President, 4 P. M.

# THE BOARD OF REGENTS

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## MEMBERS EX-OFFICIO

*His Excellency*, ALBERT B. CUMMINS, *Governor  
of Iowa*

JOHN F. RIGGS,  
*Superintendent of Public Instruction*

## TERMS EXPIRE 1906

SIXTH DISTRICT—WILLIAM D. TISDALE, *Ottumwa*  
FIRST DISTRICT—W. I. BABB, *Mt. Pleasant*  
SECOND DISTRICT—JOE R. LANE, *Davenport*  
SEVENTH DISTRICT—CARROLL WRIGHT, *Des Moines*

## TERMS EXPIRE 1908

FOURTH DISTRICT—ALONZO ABERNETHY, *Osage*  
ELEVENTH DISTRICT—PARKER K. HOLBROOK, *Onawa*  
TENTH DISTRICT—JOSEPH H. ALLEN, *Pocahontas*  
THIRD DISTRICT—CHARLES E. PICKETT, *Waterloo*

## TERMS EXPIRE 1910

FIFTH DISTRICT—THOMAS B. HANLEY, *Tipton*  
EIGHTH DISTRICT—JOHN W. LAUDER, *Afton*  
NINTH DISTRICT—VERNON L. TREYNOR, *Council Bluffs*

## OFFICERS OF THE BOARD

LOVELL SWISHER, <i>Iowa City</i> .....	TREASURER
WILLIAM J. MCCHESNEY, <i>Iowa City</i> .....	SECRETARY
GILBERT H. ELLSWORTH, <i>Iowa City</i> .....	SUPERINTEN-
DENT OF CONSTRUCTION, MAINTENANCE AND GROUNDS	
PARKER K. HOLBROOK	} EXECUTIVE COMMITTEE
ALONZO ABERNETHY	
W. I. BABB	
JOE R. LANE.....	DELEGATE TO THE SENATE

# THE ADMINISTRATIVE OFFICERS

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## THE UNIVERSITY

GEORGE EDWIN MACLEAN, LL. D., President.

ELMER ALMY WILCOX, B. A., Secretary of the University Senate.

JOHN FRANKLIN BROWN, PH. D., Inspector of Schools.

THOMAS HUSTON MACBRIDE, PH. D., Director University Extension.

WILLIAM CRAIG WILCOX, M. A., Secretary University Extension.

HERBERT CLIFFORD DORCAS, M. A., University Examiner and Registrar.

ALICE BRADSTREET CHASE, Executive Clerk.

COLONEL GEORGE RITTER BURNETT, U. S. A., Commandant of the Cadet Battalion.

FRED COLLINS DRAKE, B. PH., Secretary to the President and University Editor.

JOHN GEORGE CHALMERS, B. A., Director of Physical Training.

MARY SLEIGHT EVERTS, Acting Dean of Women.

## THE COLLEGES

AMOS NOYES CURRIER, LL. D., Dean of the College of Liberal Arts.

CHARLES NOBLE GREGORY, LL. D., Dean of the College of Law.

JAMES RENWICK GUTHRIE, M. D., Dean of the College of Medicine.

GEORGE ROYAL, M. D., Dean of the College of Homeopathic Medicine.

WILLIAM SUITS HOSFORD, D. D. S., Dean of the College of Dentistry.



WILBER JOHN TEETERS, PH. C., Dean of the College of Pharmacy.

LÉNAS GIFFORD WELD, M. A., Dean of the Graduate College.

ISAAC A. LOOS, D. C. L., Director of the School of Political and Social Science.

WILLIAM G. RAYMOND, C. E., Director of the School of Applied Science.

FREDERICK E. BOLTON, PH. D., Director of the Summer Session.

ANDREW A. VEBLEN, M. A., Secretary of the Faculty of the College of Liberal Arts.

ELMER ALMY WILCOX, B. A., Secretary of the Faculty of the College of Law.

WALTER LAWRENCE BIERRING, M. D., Secretary of the Faculty of the College of Medicine.

WILLIAM LE CLAIRE BYWATER, M. D., Secretary of the Faculty of the College of Homeopathic Medicine.

ARTHUR FAIRBANKS, PH. D., Secretary of the Faculty of the Graduate College.

#### THE HOSPITALS

WILLIAM R. WHITEIS, M. D., Director of the University Hospital.

BERTHA WILKINSON, Graduate Nurse, Principal of the Training School for Nurses, College of Medicine.

WILLIAM LE CLAIRE BYWATER, M. D., Director of the Homeopathic Hospital.

ELVA M. DUNHAM, Graduate Nurse, Superintendent of the Training School for Nurses, and the Homeopathic Hospital.

#### THE LIBRARIES AND MUSEUMS

MALCOLM GLENN WYER, B. L. S., Acting Librarian in Charge

MERTON LEROY FERSON, LL. B., Law Librarian.

CHARLES CLEVELAND NUTTING, M. A., Curator of the Museum of Natural History.

BOHUMIL SHIMEK, M. S., Curator of the Herbarium.

## PUBLIC LECTURES

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1904.

- Jan. 8, Baconian, "Sanitary Engineering," (illustrated), Professor Charles S. Magowan.
- Jan. 15, Baconian, "The Northern Constellations," Mr. W. E. Beck.
- Jan. 20, Department of Zoology, "The Bahamas and Tortugas," Professor C. C. Nutting.
- Jan. 22, Baconian, "Ethics, its Nature and its Place among the Sciences," Dr. H. E. Stuart.
- Jan. 27, Department of Zoology, "Havana and its Harbor," Professor C. C. Nutting.
- Jan. 29, Baconian, "Degeneracy—its Causes, Signs and Results," (illustrated) Dr. Eugene Talbot.
- Feb. 3, Department of Zoology, "The Highways and Byways of Naples," Professor C. C. Nutting.
- Feb. 5, Baconian, "Physics Applied in Medicine," Dr. A. J. Burge.
- Feb. 10, Department of Zoology, "The Naples Zoological Station and Excursions to Capri and Ischia," Professor C. C. Nutting.
- Feb. 12, Baconian, "The Automobile," (illustrated), Mr. B. J. Lambert.
- Feb. 17, Department of Zoology, "Pompeii, the Buried City," Professor C. C. Nutting.
- Feb. 19, Baconian, "Stereoscopic Projection," Mr. C. F. Lorenz.
- Feb. 22, Convocation Address, "Back to Washington," Professor W. C. Wilcox.
- Feb. 24, Department of Zoology, "The Cliff Dwellers of the Mesa Verde," Professor C. C. Nutting.
- Feb. 26, Baconian, "The Physiology of Sleep," Mr. J. J. Lambert.
- Feb. 28, Department of English, "The England that Chaucer Knew," Professor J. G. Gilchrist.

- Mar. 2, Department of Zoology, "The Bottom of the Sea, its Physical Conditions and Animal Life," Professor C. C. Nutting.
- Mar. 4, Baconian, "The White Lands of New Mexico," (illustrated), Professor Bohumil Shimek.
- Mar. 9, Department of Zoology, "Life on Board the U. S. S. Albatross," Professor C. C. Nutting.
- Mar. 11, Baconian, "The Musical Scale," Mr. W. M. Boehm.
- Mar. 16, Department of Zoology, "The Hawaiian Islands, Oahu, Maui and Molokai," Professor C. C. Nutting.
- Mar. 23, Department of Zoology, "The Outliers of the Hawaiian Group, Laosyan, Kauai, etc," Professor C. C. Nutting.
- Mar. 25, Baconian, "Yellowstone National Park," (illustrated), Professor F. A. Wilder.
- Mar. 29, Department of History, "The Eastern Question," Professor W. C. Wilcox.
- Apr. 1, Baconian, "Some Developments in Electric Railroad-ing," Professor R. T. Wells.
- Apr. 4, Department of French, "Paris sans l'agence Cook," Edouard Dupouey.
- Apr. 8, Baconian, "The Hydrographical Work of the U. S. Government With Special Reference to the Arid Regions," Professor A. G. Smith.
- Apr. 22, Baconian, "Some Remarkable Habits of Spiders," (illustrated), Professor H. F. Wickham.
- June 25, Department of History, "Danton, the Ruler of the French Revolution," Professor W. C. Wilcox.
- June 27, Department of Physics, "The Valdres, a typical Country District of Norway," Professor A. A. Veblen.
- June 29, Department of Geology, "The Mammoth and Wyandotte Caves," Professor Frank A. Wilder.
- July 2, Department of History, "Talleyrand, the Prince of European Diplomacy," Professor W. C. Wilcox.
- July 7, Department of Public Speaking, "My Lady's Ring," (recital), Miss Katherine Jewell Everts.
- July 8, Department of Latin, "A Day in Pompeii," Professor Franklin H. Potter.
- July 9, Department of History, "Metternich, the Dictator of the Reaction." Professor W. C. Wilcox.



- July 12, "American and Educational Expansion," President George E. MacLean.
- July 14, "Florence, the City of Romola," Professor H. G. Buehler.
- July 15, "Iowa Authors," Honorable Johnson Brigham.
- July 16, Department of History, "Cavour, the Creator of Modern Italy," Professor W. C. Wilcox.
- July 18, Department of Botany, "The Deserts of New Mexico," Professor Bohumil Shimek.
- July 19, "The International Institution for Girls and Its Founder, Mrs. Alice Gordon Gulick," Miss Elizabeth Gordon.
- July 21, "The Bible as Literature," Professor Huber G. Buehler.
- July 22, Department of Public Speaking, "Madalennette," (recital), Miss Ethel Elliott.
- July 23, Department of History, "Bismarck, the Maker of the German Empire," Professor W. C. Wilcox.
- July . ., Department of Public Speaking, "The Lane That Had No Turning," (lecture recital), Miss Ethel Elliott, Assistant in Public Speaking, Smith College.
- July 25, Department of History, "Gladstone, the Model of English Statesmanship," Professor W. C. Wilcox.
- July 29, Convocation Address, "Some Lessons for American High Schools, Suggested by a Study of German Education," Professor Frederick E. Bolton.
- Sept. 30, Baconian, "Coal Tar," Professor W. J. Teeters.
- Oct. 7, Department of Surgery in the Homeopathic Medicine, "Aneurisms," Dr. J. G. Gilchrist.
- Oct. 14, Baconian, "The Salmon and Salmon Fisheries," (illustrated), Professor C. C. Nutting.
- Oct. 20, Auspices of Middletonian Society, "Why We Sympathize With Japan," Professor W. C. Wilcox.
- Oct. 21, Baconian, "The Interglacial Deposits of Iowa," (illustrated), Professor Samuel Calvin.
- Oct. 26, Auspices of Sigma Xi, "Upsala University and Some of Its Noted Scientists," Professor A. A. Veblen.
- Oct. 28, Baconian, "The Response of Plants to Human Preference," (illustrated), Professor T. H. Macbride.
- Nov. 2, Auspices of Philosophical Club, "A Mathematical

Prodigy," President W. L. Bryan, Indiana State University.

Nov. 4, Baconian, "Transcendental Numbers," Dr. J. V. Westfall.

Nov. 11, Baconian, "Insect Life in the Great Basin," (illustrated), Professor H. F. Wickham.

Nov. 13, Auspices of the Y. M. C. A., "The Final Stand of the Christian Religion," Professor W. C. Wilcox.

Nov. 18, Baconian, "The Reaction of a Conducting Core on A Solenoid," Dr. R. T. Wells.

Dec. 2, Baconian, "Food Preservatives," (illustrated), Dr. E. W. Rockwood.

Dec. 7, Auspices of Archeological Society, "Primitive Music of the Southwest," Charles F. Lummis.

Dec. 16, Baconian, "A Trip to the Lick Observatory," Professor W. G. Raymond.

Dec. 16, Department of Latin, "Virgil Illustrated," Professor Franklin H. Potter.

1905.

Jan. 6, Baconian, "A Mathematical Attempt to Mitigate the Severity of a Torrid Climate," Professor S. M. Woodward.

Jan. 11, Auspices of School of Political and Social Science, "Porto Rico," (illustrated), Professor Samuel McCune Lindsay, University of Pennsylvania.

Jan. 13, Baconian, "The History of a Piece of Coal," (illustrated), Mr. C. L. Bryden.

Jan. 20, Baconian, "The Marine Biological Laboratory at Woods Hole," (illustrated), Mr. J. J. Lambert.

Jan. 27, Baconian, "An Iowa Case of Vision Acquired in Adult Life," Dr. J. B. Miner.

Sept. to Jan. Assembly. Addresses by Professor Frederick E. Bolton, Dr. Henry J. Prentiss, Mr. M. G. Wyer, Professor H. F. Wickham, the Reverend Duren J. H. Ward, Professor Benjamin F. Shambaugh, President H. C. King of Oberlin College, Professor A. G. Smith, Professor L. M. Byers, Reverend Edward B. Hodge, Dr. F. E. Horack, Assistant Professor Stephen H. Bush.

# GENERAL INFORMATION

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## ORGANIZATION

The State University of Iowa is an integral part of the public school system of the state. As required by law, the work of the University is based upon the preparation afforded by the duly accredited high schools of the state, whose graduates are admitted to the undergraduate and professional courses upon presentation of the proper certificates. A sense of this vital connection with the public schools determines, in a large measure, the requirements for admission to the University, its spirit, and its courses of study. The State, through the University, undertakes to furnish instruction in the various branches requisite for a liberal education in the liberal arts, law, medicine, dentistry, pharmacy, nursing, and, in applied science, the various branches of engineering. It also aims to encourage research work in all departments, to produce creative scholars, and thus do its part in the enlargement of the domain of knowledge. Thus it is the general policy of the institution to foster the higher educational interests of the State, broadly and generously interpreted.

The control of the University is intrusted to a Board of Regents, consisting of the Governor of Iowa and the Superintendent of Public Instruction *ex-officiis*, and of one member elected by the General Assembly from each of the eleven congressional districts.

## BUILDINGS

The University at present occupies eighteen buildings, beautifully situated near the business center of Iowa City. The buildings are named in the order of their erection. The Old Capitol, the birthplace of the state, is devoted to the administrative offices and the College of Law. The Hall

of physics contains the lecture rooms and laboratories of the department of physics. The Clinton Street building is at present used by the department of surgery.

The natural science hall contains the museum of natural history, and the laboratories of the departments of geology, botany, zoology, and animal biology. The chemical laboratory contains the departments of chemistry of the several colleges. Close Hall, the home of the Young Men's and Young Women's Christian Associations also contains the halls of six of the forensic societies; the entire lower floor is given over to the women's gymnasium. The dental hall is occupied wholly by the college of dentistry. The hospital of the college of medicine and the hospital for the college of homeopathic medicine, are modern structures. The old armory is occupied by the lecture rooms and laboratories of the department of electrical engineering. A modern central heating, lighting and power plant is connected by an underground brick tunnel with all the buildings on the west campus. The hall of liberal arts, 120x260 feet on the ground, contains ninety-two rooms arranged for the respective departments of letters with office, seminar, departmental library and lecture rooms en suite. There are also an attractive drawing and rest room for women, psychological laboratories and a general lecture room. The State Historical Society and the general university library are temporarily lodged in this handsome Bedford stone and fireproof building. The style of the building harmonizes with that of the Old Capitol.

On the foundations of old south hall and the former medical hall is a large and commodious building devoted to the departments of engineering and the shops.

The hall of anatomy is the first building completed in the new medical quadrangle. It contains dissecting rooms with the most modern accommodations for 20 tables, an amphitheater with seating capacity of two hundred and twenty-five persons, offices, reading rooms, and a preserving room. It is a handsome hexagonal, fire-proof building of Bedford stone with granite foundations. The interior finish is designed to make it aseptic.



The second building in the new medical quadrangle contains the general and clinical laboratories of bacteriology, pathology, histology, physiology and pharmacology. It is constructed in the same manner and in similar style to its companion building just described.

The University has just completed a large gymnasium and armory for the use of the men of the University. The building is 84 by 162 feet in dimension and three stories in height. In addition to thorough equipment in the way of gymnasium apparatus the building contains a twelve-lap concave, canvas-lined running track. The building is situated just outside the athletic field which contains a football gridiron, a baseball field and a splendid two-fifths mile cinder track.

#### THE LIBRARIES.

The students have free access, in addition to the general and departmental libraries of the University, to the libraries of the State Historical Society and the free public library of Iowa City. This makes available about 110,000 well selected volumes in diverse fields of knowledge. The reading rooms of the several libraries are well supplied with current periodicals.

#### THE LABORATORIES.

The more important laboratories are as follows: The chemical, the pharmaceutical; the physical; the psychological; the laboratories of animal biology; of zoology; of anatomy; of pharmacology; of geology and paleontology; of botany; of pathology and bacteriology; of histology; of physiology; and of otology. There is a students' astronomical observatory.

#### THE NATURAL HISTORY COLLECTIONS.

are equal in extent and value to any found in connection with a Western university. The museum of natural history contains the zoological, the ethnological, and part of the geological collections. The botanical material is in the herbarium under the charge of the department of botany, and most of the geological specimens are in the rooms occupied by the department of geology.

## THE UNIVERSITY PUBLICATIONS.

The following series of publications are now issued by the University: Natural History Bulletin, preserving a record of the work done in botany, geology, and zoology; The Transit, devoted to engineering; The Law Bulletin; The Bulletin of the Homeopathic Medical College; The State University of Iowa Studies in Psychology; The State University of Iowa Studies in Sociology, Economics, Politics, and History; Documentary Material Relating to the History of Iowa, published in part by the State Historical Society.

## LITERARY, FORENSIC, AND SCIENTIFIC SOCIETIES.

The literary, forensic, and scientific societies maintained by the faculties and students of the University afford an important means of general culture, scientific research, and literary and forensic training. The societies thus organized are: The Baconian Club; The Political Science Club; The Whitney Society; The Philosophical Club; The English Club; Edda; Phi Beta Kappa; Sigma Xi; Irving Institute, Zetagathian Society, and Philomathean Society for young men; Hesperian Society, Erodelpian Society, and Octave Thanet Society for young women; The Hammond Law Senate; The Forum; The Engineering Society; The Hahnemannian Society; The Middletonian Medical Society; The Mortar and Pestle Club. Among the purely literary clubs are Tabard, Ivy Lane, Polygon, a group of societies in the English department.

## RELIGIOUS INFLUENCES.

The university extends a cordial welcome to students of all denominations. The churches of the city, in which the members of the faculties are a large factor, take a deep interest in the welfare of the students, whom they cordially invite to share in their religious activities and social life.

There are fifteen churches in Iowa City representing twelve denominations.

## DEAN OF WOMEN

While women have always shared all the opportunities of the university on absolutely equal terms with men, it has been deemed expedient to appoint a dean of women, armed with large powers, to act as special representative and adviser for the women in all the departments and colleges of the University, whether graduate or undergraduate, academic or professional.

## PHYSICAL TRAINING AND ATHLETICS.

The university authorities encourage physical training in such amount and of such a character as is compatible with and promotive of the higher objects of the University. Intercollegiate contests are carefully controlled in order to eliminate professionalism and other objectionable features.

## HOSPITALS.

The two hospitals connected with the University afford the best of care and treatment for students seriously ill. The attention of generous friends of the University is here called to the desirability of providing free hospital service for such students as are unable to meet the expenses incident to protracted illness while away from home.

## SELF-SUPPORT.

While it is impossible for the University to guarantee that any student will be able to earn his way entirely or in part, it is just to state that it rarely happens that a student needing to do this fails to secure employment of some kind. Iowa City is a city of 9,000 inhabitants, friendly to the University, and glad to give work to deserving students. The university faculties interest themselves to aid the students in finding employment, and the Y. M. and Y. W. C. A. have established a free labor bureau which is at the service of the students. The associations make a canvass of the city and find work and suitable lodging and boarding places.

The president and the deans seek at all times the confidence of impecunious students, and heretofore have been able to give counsel by which students have found the way to remain in the University.

# COLLEGE OF DENTISTRY

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## MEMBERS OF THE FACULTY AND OTHER OFFICERS

GEORGE EDWIN MACLEAN, B. A., M. A., B. D., Ph. D., LL. D.,  
President of the University.

FRANK THOMAS BREENE, D. D. S., M. D.,  
Professor of Operative Dentistry and Special Therapeutics.

WILLIAM S. HOSFORD, B. A., D. D. S.,  
Professor of Prosthetic Dentistry, Crown and Bridge Work, and  
Dean of the Faculty.

ERNEST A. ROGERS, D. D. S.,  
Professor of Regional Anatomy, Clinical Dentistry, and Superin-  
tendent of Clinics.

WILLIAM J. BRADY, D. D. S.,  
Professor of Orthodontia.

ELBERT WILLIAM ROCKWOOD, B. S., M. A., M. D., Ph. D.,  
Professor of Chemistry and Metallurgy.

CHARLES SUMNER CHASE, B. A., B. S., M. A., M. D.,  
Professor of Materia Medica and Therapeutics.

WILLIAM ROBERT WHITEIS, B. S., M. S., M. D.,  
Professor of Histology and Embryology.

JOHN T. MCCLINTOCK, B. A., M. D.,  
Professor of Physiology.

GEORGE V. I. BROWN, M. B., M. D., D. D. S., C. M.,  
Professor of Dental Pathology and Oral Surgery.

HENRY ALBERT, B. S., M. S., M. D.,  
Professor of Pathology and Bacteriology.

HENRY JAMES PRENTISS, M. E., M. D.,  
Professor of Anatomy.

CHARLES CLEVELAND NUTTING, B. A., M. A.,  
Lecturer on Comparative Odontography.

CHARLES NOBLE GREGORY, B. A., M. A., LL. B., LL. D.,  
Lecturer on Dental Jurisprudence.

HENRY MORROW, JR., D. D. S.,  
Lecturer and Demonstrator of Prosthetic Technology.

ROSCOE H. VOLLAND, M. D., D. D. S.,  
Lecturer on Dental Anatomy and Demonstrator of Operative  
Technic.



ELMER ANTHONY SCHRADER, D. D. S.,  
Demonstrator in Operative Clinic.

JOHN P. MULLIN, M. D.,  
Demonstrator of Anatomy.

ALDEN ROBBINS HOOVER, B. S.,  
Instructor in Histology and Embryology.

WILLIAM EVERETT SPENCE, D. D. S.,  
Demonstrator in Prosthetic Dentistry.

ANFIN EGDAHL, B. S., M. D.,  
Instructor in Pathology and Bacteriology.

CHARLES L. BRYDEN, E. M., B. S. in Chem.,  
Instructor in Metallurgy.

CHARLES THAYER LINCOLN, B. S.,  
Instructor in Chemistry.

FREDERIC P. LORD, B. A., M. D.,  
Demonstrator of Anatomy.

RUDOLF ERNST KLEINSORGE,  
Assistant Instructor in Physiology.

EDWIN E. HOBBY, B. S., M. D.,  
Assistant Demonstrator of Anatomy.

CLARENCE HENRY HANSON, B. S.,  
Scholar in Physiology.

LAWRENCE ALBERT QUAIFFE, B. PH.,  
Scholar in Pathology and Bacteriology.

EDWARD ELLSWORTH BLYTHE, B. PH., M. D.,  
Assistant in Histology.

JOSEPH MAXWELL CADWALLADER,  
Prosector in Anatomy.

JENS CHRISTIANSEN, M. Di.,  
Assistant in Pathology and Bacteriology.

HERBERT MORGAN DECKER, D. D. S.,  
Assistant in Pathology and Bacteriology.

WALTER HENRY FOX,  
Senior Assistant Demonstrator in Anatomy.

ROBERT LINCOLN GLASE,  
Prosector in Anatomy.

RAY EDWIN HALL,  
Laboratory Assistant in Materia Medica.

DIEDRICH JANSSEN MEENTS, B. S.,  
Assistant in Pathology and Bacteriology.

- CARL ERNEST RICHARDS,  
Assistant in Pathology and Bacteriology.
- ADELBERT W. STARBUCK, D. D. S.,  
Assistant in Histology.
- HELEN BASCHNAGEL,  
Clerk of the Infirmary.
- EVAHN RUSSELL WALKER, B. S.,  
Assistant in Physiology.
- ARTHUR DANIEL WOODS,  
Junior Assistant Demonstrator in Anatomy.
- CLARISSA J. JOY,  
Assistant Clerk in the College of Dentistry.
- W. M. VERMILLION,  
Custodian.

# THE COLLEGE OF DENTISTRY

This college (first called the Dental Department) was organized in response to an earnest request from the profession throughout Iowa, acting through the Iowa State Dental Society. The department was organized in 1881 and held its first session during the year 1882-1883 and has been in continuous operation since. The college enjoys the singular advantage of being a component part of a university and located on the same campus with the other colleges. This gives the student the advantage of instruction in great University departments, the use of the laboratories, libraries and museums of the whole University, as well as a wide acquaintance with the faculties and students of the several colleges of the institution.

## BUILDINGS AND EQUIPMENT.

In 1894 a large building was erected for the exclusive use of the college. The building has since been elaborately equipped for dental teaching and is now unsurpassed in convenience.

The college is so equipped as to enable each student to have his own quarters throughout the year. He has his own locker and tables in the laboratories, his seat in the lecture rooms, and his chair and cabinet in the clinic rooms, which are reserved for him at all times.

The building is well lighted throughout, there being no dark rooms, while absence of the smoke and dust of a large city permits full use of the eyes without injury. The laboratories have a large window at each table with lockers beneath for instruments. These laboratories have all the usual appliances including electric lathes for polishing. The lecture rooms are ample and seated with comfortable opera chairs.

The operating rooms are exceptionally well lighted, and provided with Wilkerson and Columbia chairs, each chair having a fountain spittoon with saliva ejector, and with a Harvard cabinet for instruments. Each chair is

also provided with an overhead electric light for dark days or unavoidably late work. This splendid equipment permits of much better and more comfortable work than where the student is compelled to keep all his instruments in a carrying case set upon a small table at the chair.

Porcelain work receives much attention and a number of porcelain furnaces of the latest pattern have been installed. Porcelain baking can be carried on at any time without inconvenience or delay. Such apparatus as electric cautery, root-driers, mouth lamps, and gold annealers are also provided.

A special library of dental and surgical works is maintained in the building for the use of students at all times. This is a department of the general library of which dental students have all the privileges.

The college museum is large and valuable, comprising the celebrated Patrick collection illustrating comparative dental anatomy, with many other rare and valuable specimens pertaining to dentistry. Additions to the museum are being constantly made and our friends are urged to make contributions.

The new laboratories for the study of anatomy, physiology, histology, and bacteriology are now ready and in daily use. These buildings are equipped with every modern appliance for the study of these branches, and are models of convenience and utility.

The method of instruction is by lectures, demonstrations, recitations, and the actual performance of both laboratory and clinical work by the student himself under the supervision of experienced demonstrators. A systematic and thorough preliminary training is given through the technic work of the laboratories, thus fitting the student as far as possible for the practical work of the infirmary. The clinical material is abundant and of exceptional quality, being composed of clean and intelligent patients and affording opportunity for every variety of work, especially of the higher grades.

The College of Dentistry is a member of the National Association of Dental Faculties, and abides by all its rules and regulations. The college also observes all the re-



quirements of the National Association of Dental Examiners. The diploma of the College of Dentistry is legally recognized in every state of the United States, and in every foreign country where an American diploma confers any legal rights or privileges.

#### LENGTH OF COURSE.

The course extends through three years of thirty-six weeks each, the years being divided into semesters of eighteen weeks each, and each semester into two quarters of nine weeks. The twenty-fifth annual session begins September 21, 1905, and ends June 13, 1906.

#### ADMISSION REQUIREMENTS FOR 1906-1907.

##### Special Notice.

The following educational requirements, which have been established by the National Association of Dental Examiners for entrance to all dental colleges, meet with the hearty approval of this University and notice is hereby given that applicants for admission to the 1906-1907 session will be expected to comply with these requirements: "The minimum preliminary requirement for matriculation or registration shall be graduation from an accredited high school or its full equivalent. All examinations or credentials or equivalents to be placed in the hands of an acceptable appointee of the state superintendent of public instruction. When not otherwise provided for by law, said requirements are to be inaugurated not later than the beginning of the school year—1906-1907." Prospective students will please take notice of this important change.

#### ADMISSION REQUIREMENTS FOR 1905-1906.

The following requirements will be in effect for the college year 1905-1906.

Each applicant for admission must present satisfactory evidence of good moral character. Students of both sexes are admitted on equal terms.

The minimum preliminary educational requirement for the session of 1905-1906 shall be a certificate of admission to the third year of a high school or its equivalent, as required by the National Association of Dental Faculties. All matters pertaining to the preliminary requirements or examinations are placed in the hands of the university examiner, Mr. H. C. Dorcas, who is also the appointee of the State Superintendent of Public Instruction.

Graduates or matriculates of reputable universities or colleges, and graduates of state normal schools or accredited high schools and academies, may be admitted without examination to the first year class on presentation of diplomas or certificates of honorable dismissal.

Graduates of other high schools or academies whose courses of study are approved by the University, or pupils who have completed *at least two (2) years* of work in such schools or in accredited schools, will be admitted without examination on presenting certificates, signed by the superintendent or the principal, and containing specific statements as to the amount of work done in each study. Two years of work must include *sixteen (16) preparatory credits, a preparatory credit being defined as the equivalent of one high school study five days a week during a semester, eighteen weeks in length, on the basis of four studies a day.* These preparatory credits must be certified by the superintendent or the principal of the school from which the applicant comes, on a blank form which may be obtained by addressing the President of the University or the Dean of the College. This blank should be made out and returned to the university examiner *as early in the summer as possible.*

*Extract from Code of Rules of the National Association of Dental Faculties Regulating the Admission of Students.*

#### LIMITING THE TIME FOR THE RECEPTION OF STUDENTS

No member of this Association shall give credit for a full course to students admitted later than ten days after the opening day of the session, as published in the announcement.

In case one is prevented by sickness, properly certified to by

a reputable practicing physician, from complying with the foregoing rule, the time of admission shall not be later than twenty days from the opening day.

That students in attendance at colleges of this Association, to obtain credit for a full term, must be and remain in attendance until the close of the session.

Students from other reputable dental colleges, students from colleges in foreign countries, and graduates in medicine may be received into advanced classes, subject to the following rules of the National Association of Dental Faculties, and the rules of the faculty of the College of Dentistry.

#### ADMISSION TO ADVANCED GRADES ON CERTIFICATES.

The colleges of this Association may receive into the advanced grades of juniors and seniors only such students as hold certificates of having passed examinations in the studies of the freshman or junior grades respectively. All students who have successfully passed their examinations for advanced standing shall have their certificates given or mailed to them within *thirty days* after such examinations shall have been completed. Such certificates to be pledges to any college of the Association to whom the holders may apply, that the requisite number of terms have been ~~spent~~ in the institutions by which the certificates were issued.

#### STANDING OF STUDENTS HOLDING CERTIFICATES FROM DENTAL COLLEGES IN FOREIGN COUNTRIES.

In case of persons holding certificates from colleges of dentistry in foreign countries, they shall be required to furnish properly attested evidence of study, attendance upon lectures, examinations passed satisfactorily, etc., just as is required of students coming from our own institutions.

#### ADVANCED STANDING AND ADMISSION OF GRADUATES OF MEDICINE.

Advanced standing in the classes of members of this Association shall not be given students except in the following instances:—

First. Where students shall have taken a full course in a school a member of this Association, or one especially recognized, and shall have successfully passed the required examinations.

Second. When the student shall present evidence of graduation from a reputable medical college, he may receive one year's advanced standing.

A graduate of a recognized dental college, who applies to a college of this Association for the degree of Doctor of Dental Surgery or Doctor of Dental Medicine, shall complete one full course of instruction in said college and comply with all other requirements of the senior class.

All other applicants for admission must *pass examinations* in the subjects designated in the programmes of entrance examinations given below, or other subjects which are real equivalents.

Applicants presenting certificates from accredited schools for work not fully meeting the requirements for admission, will be examined in the subjects in which they are deficient.

It is urged that anyone expecting to enter the College of Dentistry next September send all necessary credentials to the university examiner *as early in the summer as possible, and certainly before September 1*. If the credentials are satisfactory a card of admission will be sent to the applicant at once. Upon arriving in the city he should present this card to the dean for signature.

### ENTRANCE EXAMINATIONS.

Any person expecting to enter the College of Dentistry next September, should be careful to learn before the opening of the University exactly what entrance examination he will be required to pass. He can learn this by addressing the president of the University, the dean of the College of Dentistry, or the university examiner.

It is necessary that each applicant who is to be examined arrive in the city early enough to be present *at his first examination as indicated in the programmes given below*. He should present himself at once at the office of the university examiner, who will give him all necessary directions.

For *each separate* examination given at any other time than that announced in the following programmes, a fee of *one dollar* will be charged by the University. For a *series* of examinations covering two or more subjects, a fee of *two dollars* will be charged.

### PROGRAMMES OF ENTRANCE EXAMINATIONS.

#### FIRST SEMESTER.

*Tuesday, September 19, and Wednesday, September 20, 1905*

Arithmetic,                      1 credit,      Monday,              1:30 p. m.

English and	}	2 credits,	Tuesday,	4:30 p. m.
English Grammar,				
United States history,		1 credit,	Tuesday,	1:30 p. m.
Civil government,		1 credit,	Tuesday,	2:30 p. m.
Algebra, through	}	3 credits,	Wednesday,	8:00 a. m.
quadratics,				
Physical geography,		1 credit,	Wednesday,	11:00 a. m.
Botany,		1 credit,	Wednesday,	3:00 p. m.
Physiology,		1 credit,	Wednesday,	4:00 p. m.

## SECOND SEMESTER

*Friday, February 9, and Saturday, February 10, 1906*

The examinations will be held at the same hours as in the programme above, reading Friday and Saturday for Tuesday and Wednesday, respectively.

## COMBINED COURSES.

Arrangements have been made with the faculty of the College of Liberal Arts whereby a student may receive credit in one college for work done in another, thereby obtaining the two degrees in six years instead of seven as would be required if each degree were taken independently. These combined courses are especially recommended to all students who expect to take up the profession of dentistry.

COMBINED COURSE OF SIX YEARS LEADING TO THE DEGREE OF B. S. IN THE COLLEGE OF LIBERAL ARTS, AND TO THE DEGREE OF D. D. S. IN THE COLLEGE OF DENTISTRY.

(The requirements for admission to this course pertain to the College of Liberal Arts, *not* to the College of Dentistry.)

## FIRST YEAR

German or French	5 hours
English	2 hours
Mathematics	4 hours
Animal biology	4 hours
	<hr/>
	15 hours



# COMBINED COURSES

27

## SECOND YEAR

English*	3 hours
Physics	4 hours
Animal biology	4 hours
Botany or zoology	4 hours
	<hr/>
	15 hours

## THIRD YEAR

German or French*	3 hours
Chemistry	4 hours
Elective in the College of Liberal Arts	8 hours
	<hr/>
	15 hours

## FOURTH YEAR

Chemistry	3 hours
Human anatomy	4 hours
Human physiology	3 hours
Freshman dental laboratory work	5 hours
	<hr/>
	15 hours

## FIFTH AND SIXTH YEARS

Dental work exclusively.

NOTE 1. The degree of B. S. to be conferred at the end of the fourth year; the degree of D. D. S., at the end of the sixth year if the work has been completed. This course must be taken as here outlined, except that the starred (\*) English and foreign language may be transposed.

NOTE 2. Students of marked ability may shorten this course to five years by taking electives in the College of Liberal Arts during successive summer sessions.

REQUIREMENTS FOR ADMISSION TO THE COMBINED COURSE LEADING TO THE DEGREES B. S. AND D. D. S.

1. Some *one* foreign language (Latin\* preferred, but German or French accepted), 4 credits
2. English and literature, 6 credits

3. History, (may include civics),	2 credits
4. Algebra, through quadratics, theory of exponents, and progressions,	3 credits
5. Plane geometry,	2 credits
6. Electives ( <i>additional</i> creditable work in foreign language, Eng- lish, history, mathematics or science),	13 credits
	—
Total	30 credits

For a detailed statement of the requirements for admission, see the latest announcement of the College of Liberal Arts.

#### COMBINED COURSE LEADING TO THE DEGREES OF M. D.

##### AND D. D. S.

Students may arrange to obtain the degrees of Doctor of Medicine and Doctor of Dental Surgery in six years. Details must be arranged by the faculty.

If it is desired to combine the dental work with the work of the College of Medicine it will be necessary for the student to present thirty preparatory credits to meet the requirements of that college. If on the other hand the student elects to combine his dental work with the work of the College of Homeopathic Medicine he will be required to present the requirements of that college, viz., twenty-four credits. Students contemplating taking either of these courses should consult the announcements of the colleges of medicine.

#### SCHEDULE OF STUDIES.

A tentative curriculum for the three year course of instruction is here given, subject to modification as may seem expedient.

## FRESHMAN YEAR

Anatomy	Materia medica (2d semester)
Dissection	
Physiology	Medical Latin (optional)
Chemistry	Dental anatomy
Chemical laboratory	Prosthetic technic
Histology	Operative technic
Histological laboratory	

## JUNIOR YEAR

Anatomy	Operative technic
Dissection	Operative dentistry
Physiology	Prosthetic dentistry
Materia medica (1st semester)	Prosthetic technic
Special (2d therapeutics semester)	Porcelain technic
Metallurgy	Orthodontia technic
Metallurgical laboratory	Infirmery (2d semester)
General pathology (2d semester)	Bacteriology (1st semester)
	Special histology

## SENIOR YEAR

Operative technic	Oral surgery
Prosthetic dentistry	Comparative odontography
Clinical dentistry	Physical diagnosis
Orthodontia	Hygiene
Regional anatomy	Dental jurisprudence
Special therapeutics	Special lectures
Special pathology	Infirmery

All students will be required to pass an examination on the studies pursued in their respective courses before leaving the University at the close of each session. No student who has failed in two of the studies of this course will pass to advanced standing unless these studies are made up before the second week in January of the succeeding session. No certificates are given to any who fail in more than two branches; except a time certificate stating the actual time of attendance.

Examination in conditioned studies will take place the following session, namely, the fourth week in September and the second week in January.

# OUTLINE OF THE PLAN OF INSTRUCTION

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## DEPARTMENT OF OPERATIVE DENTISTRY AND DENTAL THERAPEUTICS.

PROFESSOR BREENE; DR. ROGERS, DR. VOLLAND, DR. SCHRADER.

The course in operative dentistry, including operative technic and dental anatomy, extends through the freshman, junior and senior years. The clinical facilities for instruction in this department give the student an opportunity to receive thorough drill of a practical kind that can be utilized in the practice of dentistry.

To restore teeth which have become diseased or deformed by formative chemical or mechanical means to a normal or functional condition is the ideal of operative dentistry.

To facilitate the bringing of the student to the point of recognizing and accomplishing this ideal of dental art, instruction in the detail of all operations upon the teeth is given in the technical laboratory, infirmary, and by lectures.

The course in operative technic is supplementary to lectures and laboratory work in dental anatomy of the freshman year. It is a preliminary training for clinical dentistry procedure. Every effort is put forth by the instructors in charge to make this work practical.

Each student carves from bone or celluloid blocks a number of teeth which are mounted in dummy jaws. Cavities of decay are outlined on these teeth. The student is required to prepare cavities for insertion of fillings, following the modern methods of cavity preparation.

Fillings of gold, amalgam, cement and guttapercha, also inlays of gold and porcelain, are introduced in cavities formed. Special attention is given to restoration of

type and contact in relation to approximation and apposition. Thus the objective results (functional improvement) are fully demonstrated.

#### OUTLINE OF LECTURE COURSE

History of dentistry, care of patients, examination of teeth, use and disinfection of instruments and other appliances, removal of deposits and cleaning of the teeth, general hygiene of the mouth, methods of securing separation of teeth, preparation of cavities, selection and characteristics of filling materials, inlays—gold and porcelain.

Junior and senior years, first and second semester, three hours each week. Professor BREENE.

For information as to the plan of instruction in dental therapeutics, see department of materia medica and therapeutics.

#### DENTAL ANATOMY AND OPERATIVE TECHNIC

LABORATORY TECHNIC—In the laboratory work each student is required to carve from blocks of bone teeth of each class: i. e., incisors, cuspids, bicuspid and molars, and to mount them in models on an articulator; and to make free hand drawings of the individual teeth; to make various dissections of the natural teeth for the study of the pulp chambers and root canals. Dr. VOLLAND.

Freshman year, first semester. Four laboratory periods each week.

INSTRUMENTATION—Instrument nomenclature; instrument making; study of enamel cleavage and the cutting of tooth structure, using extracted teeth. Dr. VOLLAND.

Freshman year, second semester. Two laboratory periods each week.

CAVITY PREPARATION AND FILLING—Study of filling materials and appliances used in operative work. Preparation of cavities and insertion fillings. Study of pulp chambers and canals, and insertion of root-canal fillings. Dr. VOLLAND.

Junior year, first semester. Four laboratory periods each week.



## DENTAL ANATOMY LECTURES

Throughout the year a course of lectures is given which is supplemented by the course in laboratory technic. A detailed study of the surfaces, markings, development, occlusion, pulp cavities, and abnormal formations of teeth constitute the course of lectures on the subject. The student's attention is especially directed toward an understanding and application of the practical principles of tooth form and occlusion. The student makes free hand drawings of teeth and pulp cavities as discussed. A large selection of specimens, charts, models, and the stereopticon are used to illustrate the lectures. DR. VOLLAND.

Freshman year; one hour a week.

## DEPARTMENT OF PROSTHETIC DENTISTRY.

PROFESSOR HOSFORD; DR. MORROW, DR. SPENCE.

The work of this department is given as a graded course extending through the freshman, junior and senior years and will be divided into technical, didactic and clinical courses.

1. FRESHMAN PROSTHETIC DENTISTRY—A didactic and laboratory course including the principles and methods of taking impressions, pouring models. The making of dies and counter dies. The making of different styles of dentures on bases of vulcanite, aluminum and goldine. Vulcanizing, repairing and finishing of cases made. Laboratory work nine hours each week. DR. MORROW.

First semester.

2. a. A didactic and laboratory course including all the practical steps in the making of a full upper and lower denture; the practical study of articulation, occlusion, and the selection and arrangement of the teeth.

b. CROWN WORK—Preparation of the roots of extracted teeth for bands, fitting bands, carving cusps in plaster and other materials; making dies, swaging cusps, soldering and the finishing of crowns. This course will include the different methods of making shell and porcelain crowns.

Laboratory work nine hours a week; one lecture a week.  
Dr. MORROW.

Second semester.

3. a. JUNIOR PROSTHETIC DENTISTRY—A didactic and laboratory course embracing the principles and their applications in the making of various kinds of crowns and bridges on models secured from practical cases. A laboratory course in the making of porcelain crowns including the manipulation of porcelain, use of the electric and gasoline furnaces, and the baking of different porcelains.

Laboratory periods twelve hours a week; one lecture a week. Dr. MORROW.

First semester.

3. b. The work of the second semester consists of actual clinical experience applying the principles and methods taught in the didactic and laboratory work of the first and second years. This practical course is broadened by the lecture course on the clinical work of the students. Infirmary twenty-seven hours each week; one lecture a week. Professor HOSFORD, Dr. SPENCE.

Second semester.

4. SENIOR PROSTHETIC DENTISTRY — A didactic, recitation, and clinical course for senior students from September to June. Each student is required to perform a certain amount of prosthetic work in the infirmary to prove his or her efficiency in this subject. The large clinical attendance furnishes every facility to the student to meet every requirement.

Two lectures and one recitation each week, for thirty-six weeks.

INFIRMARY HOURS, twenty-seven each week. Professor HOSFORD, Dr. SPENCE.

DEPARTMENT OF ORAL PATHOLOGY, ORAL SURGERY, AND HYGIENE.

PROFESSOR BROWN.

ORAL SURGERY

Operative, therapeutic and mechanical treatment of diseases and deformities of the mouth, face, and jaws will

be considered with careful distinction between those affections best suited for reference to dentists, medical practitioners, and general or oral surgeons.

The divisions and special features of the courses of study in this department are as follows:

#### JUNIOR STUDENTS

1. GENERAL CONSIDERATIONS—Health, disease, pulse, respiration, conditions favorable and unfavorable to operation, shock, asepsis, preparation of patient for operation, care of hands, instruments, dressings, etc.

2. WOUNDS—Varieties and treatment, bandages, dressings, processes of tissue repair. Hemorrhage, different forms and methods of checking.

3. LIGATURES AND SUTURES—Various materials used, methods of preparation and application.

4. SURGICAL ASPECT of inflammation, suppuration, abscess, ulcer, necrosis, caries, gangrene.

5. ASEPTIC FEVER, septic fever, septicemia, pyemia. Pernicious anemia, leucothemia, digestive and nutritive disturbances.

6. ERYSIPLAS, tetanus.

7. DISEASES OF THE MUCOUS MEMBRANE. Stomatitis, leucoplakia, gangrena oris, specific disease, mucous cysts, etc.

#### SENIOR STUDENTS

1. REVIEW OF SUBJECTS treated in the junior year.

2. STUDY OF DIFFERENTIAL DIAGNOSIS through which the true etiologic factors of many more or less obscure pathologic conditions may often be determined, and quite frequently found to have their origin from oral disturbances not difficult to relieve, and thus by comparatively simple measures, make it possible to give almost incalculable benefit to patients.

3. AFFECTIONS OF THE MAXILLÆ—Periostitis, necrosis, tuberculosis, syphilis, fractures, dislocation, ankylosis. Diseases of the maxillary sinus.

4. DISEASES OF THE SALIVARY GLANDS—Parotitis, ptyalism, inflammatory conditions due to calculi, fistulæ, ranula.

5. NEURALGIA, epilepsy, muscular, spasm, paralysis, neurasthenia and other neurosis, related to tri-facial irritation.

6. HARE LIP, cleft palate and speech defects.

7. TUMORS—Practical study of those malignant and non-malignant growths which most frequently affect the jaws and mouth.

All of the foregoing pathologic conditions are comprehended within the special field to which the practice of the instructor is limited. Experience in hospitals having given a somewhat extensive opportunity for observation, it is possible to deal with each division from the standpoint of actual practice. Blood counts, microscopic sections of tissue, tumors, etc., and other data necessary for illustration and reference have been preserved from patients treated. Thus it is believed more benefit will accrue to the student than is usually possible where books alone must be depended upon for guidance.

Large numbers of casts of mouths of patients, from the newly born to adult and middle life, having congenital or acquired clefts of both hard and soft palates, hare lip deformities, double and single in almost every degree, as well as photographs and phonographic speech records before and after operative treatment will be used to convey correct ideas of the possibilities and limitations in this direction.

#### ORAL PATHOLOGY

The importance of this study will be brought directly to the members of the class through illustration with photo-micrographs prepared for use in the stereopticon, and microscopic sections showing a very considerable number of pathologic changes in the histologic structure of the organs and tissues, within or intimately associated with the special operative field of dental, and oral surgery. Many of these have been taken from cases of known history, and are therefore best calculated to impress the essentially practical features of the subject. Skiagraphs, charts and drawings will also be used to supplement didactic lectures and clinical study of patients.

## DISEASES OF THE DENTAL ORGANS

TEETH—Perversions of eruptive developmental processes. Dental caries, erosion and abrasion, discoloration.

DENTAL PULP-HYPEREMIA, pulpitis, devitalization, gangrene, secondary dentine, pulp modules, calcareous degeneration, polypi.

PERICEMENTUM—Gingival and calcic inflammations, pericementitis, dento-alveolar abscess, pyorrhea alveolaris, hypercementosis, absorption of roots of permanent teeth. Pathologic conditions of other organs and tissues of the mouth and jaws will be treated in the order outlined in the oral surgery course.

## ORAL HYGIENE

Prophylaxis in relation to healthful preservation of the dental organs and tissues of the mouth, antiseptic mouth washes, tooth powders, resistance of oral secretions to germicidal agents and subsequent difficulty in overcoming mouth bacteria, brushes, etc., will be given full consideration as well as ample illustration.

The purport of further clinical and didactic study will be to establish as the basal principle of this course, the fact that care of the buccal cavity is properly an essential part of all sanitation. The frequent intimate relation between pathologic affections of the eye, ear, nose, throat, and the stomach with diseases of the mouth, as well as disorders of the nervous and circulatory systems having similar association, must in the light of recent advances in this direction, be fully studied with a view to effective prevention of disease, whether local or general in its manifestation.

## DEPARTMENT OF ORTHODONTIA

## PROFESSOR BRADY

The course in this branch begins in the middle of the junior year, and continues through the entire senior year, the work being strictly graded and the course progressive throughout. The work of the junior year consists mainly



of a preliminary technic course with lectures on the foundation topics of normal occlusion and classification of malocclusion for diagnosis.

The work of the senior year consists of practical work in the infirmary, with lectures on the causes and treatment of malocclusion and the conduct of orthodontia practice both as a specialty and in connection with general practice. All practical work is under the direct supervision of the professor in charge. The supply of clinical material is always more than can be cared for, allowing selection of suitable cases. Each senior student must treat at least one practical case.

1. **ORTHODONTIA TECHNIC**—A combined laboratory and lecture course upon normal occlusion and the diagnosis of malocclusion, with the technique of models and appliances, including retaining appliances. This number occupies the entire second semester of the junior year. Instruction is given through one lecture and two laboratory periods a week.

2. **PRACTICAL ORTHODONTIA**—A combined lecture and clinical course in the physiology of orthodontia, the causes and treatment of malocclusion, the relation of orthodontia to rhinology and oral surgery. One lecture a week with practical instruction in the infirmary from 3 to 5 daily throughout the senior year.

## DEPARTMENT OF CLINICAL DENTISTRY AND REGIONAL ANATOMY

PROFESSOR ROGERS

The instruction in this department is given by means of lectures and special clinics.

1. These lectures treat of the professional relation which should exist between the practitioner and his patients and all matters which tend toward truest success in the dental profession. Among the subjects discussed are the following: location, equipment of an office, securing of patronage, ethics, management of patients, personal habits, business methods, fees, credit, collections, citizenship, etc.

2. The special clinics which are given from time to

time afford the students opportunity for seeing and diagnosing the more difficult cases for treatment from a clinical view point. The large number of cases which may be selected from the infirmary give excellent advantages along this line. Seniors, one hour a week first and second semesters.

3. REGIONAL ANATOMY—Lectures and recitations. The instruction in regional anatomy is supplementary to the instruction in general anatomy. It includes a thorough study of the bones, muscles, bloodvessels, and nerves of the head and face, especially those intimately associated with the physiology and pathology of the dental organs. Lectures on blood and nerve supply to the teeth are illustrated by the stereopticon. Other lectures are illustrated by maps, charts and models, and by well prepared specimens of the head, jaws, teeth and nerves *in situ*.

Senior year, first semester and first quarter of second semester, one hour each week.

#### DEPARTMENT OF ANATOMY

PROFESSOR PRENTISS; DR. HOBBY, DR. LORD, MR. FOX, MR. WOODS, MR. CADWALLADER, MR. GLASE

The freshman class on entrance is divided into three sections to accommodate itself to the three natural divisions of the body; viz., head and neck; upper extremity and thorax; and lower extremity and abdomen. The object of this division is to break the class up into small sections, that each student may receive individual instruction.

Each third of the class is assigned to one of the parts of the body, receiving the bones of that part. For one-sixth of the year it receives demonstrations on the osteology and arthrology of that part; the following sixth of the year being devoted to the study of the soft parts including the muscles, nerves, and arteries.

The sections then take up respectively the next third of the body until at the end of the year the entire body has been considered by each student. Lectures and quizzes enlarge upon the course.

The junior class covers the viscera of the body including the brain, thoracic viscera and abdominal viscera by means of lectures and quizzes. Special lectures and demonstrations are given by the professor of anatomy to the junior class upon the bones of the head, accessory sinuses, cranial nerves, blood supply of the head, etc., etc.

During the course in anatomy the students are required to make a dissection of the head and neck and extremity.

At the end of each year a practical and theoretical examination for advanced standing is held upon the work covered.

## DEPARTMENT OF PHYSIOLOGY

PROFESSOR MCCLINTOCK; MR. KLEINSORGE, MR. WALKER, MR.  
HANSON

The department of physiology now occupies a suite of rooms upon the ground floor of the new medical laboratory building. The space is divided into two large laboratories, one for second year work and one for the first year, a laboratory for special research and advanced work, a dark room, a reading room, and offices. The laboratories have been equipped with new furnishings throughout, especially adapted to the wants of the department. New apparatus of sufficient amount has been purchased to provide each set of students with all that is required for their work and there are lockers in each table where the student may keep his apparatus, books, etc., without danger of loss.

The second year laboratory is especially designed for the work upon the muscles, nerves and special senses. It is, therefore, provided with revolving drums, muscle levers, inductoriums, chronographs, electric currents, ophthalmoscopes, retinoscopes, perimeters, eye models, test lenses, and a large amount of special apparatus for the testing of the special senses. The first year laboratory is used for vivisection experiments upon circulation, respiration, and digestion. It is equipped with operating tables, surgical instruments, sterilizers, besides the more technical apparatus necessary to carry on this kind of work in the

most approved scientific manner. All the rooms are well lighted and have gas, electric light, and hot and cold water connections.

The course in physiology is graded in the first and second years.

1. **ELEMENTARY PHYSIOLOGY**—Lectures, recitations, and demonstrations dealing with the physiology of the animal and plant cell, the fundamental properties of protoplasm, and the proximate principles of the animal body. Three hours a week, first quarter, first semester, first year. Professor McCLINTOCK.

2. **PHYSIOLOGY OF DIGESTION**—Lectures, recitations, and demonstrations. This course includes a study of the various digestive juices and their activities; the nervous mechanism governing the digestive organs, the absorption of food-stuffs, and body metabolism. Three hours a week, second quarter, first semester, first year. Professor McCLINTOCK.

3. **PHYSIOLOGY OF SECRETION**—Lectures, recitations, and demonstrations dealing with the physiology of secretion. Both the external and the internal secretions are studied. The changes in the secretory cells and the nervous mechanism governing the secretions are investigated. The course includes a discussion of the physiology of the kidney, skin, ductless glands, and other glands in the body. Three hours a week, first quarter, second semester, first year. Professor McCLINTOCK.

4. **SYSTEMIC PHYSIOLOGY**—Lectures, recitations, and demonstrations. This course includes the physiology of blood, circulation, respiration, and the lymphatic system. Three hours a week, second quarter, second semester, first year. Professor McCLINTOCK.

5. **PHYSIOLOGY OF MUSCLE AND NERVE**—Lectures, recitations, and demonstrations. This course includes a study of the activity of muscle and nerve under normal and abnormal conditions and the electrical disturbances in muscle and nerve. Three hours a week, first quarter, first semester, second year. Professor McCLINTOCK.

6. **PHYSIOLOGY OF THE NERVOUS SYSTEM**—Lectures, recitations, and demonstrations upon the physiology of the

brain; spinal cord, the sympathetic and cerebrospinal nerves. Three hours a week, first quarter, second semester, second year. Professor McCLINTOCK.

7. PHYSIOLOGY OF THE SENSES—Vision, hearing, taste, smell, cutaneous and muscular sensations. Lectures, recitations, and demonstrations. Three hours a week, fourth quarter of the second year. Professor McCLINTOCK.

8. ADVANCED PRACTICAL PHYSIOLOGY—Elective. This course is open to students who have completed courses 1 to 7, inclusive. The student may select some subject in physiology and do advanced work. He will be supplied with animals and apparatus for this work. Hours to be arranged during third year. Professor McCLINTOCK, Mr. KLEINSORGE.

## DEPARTMENT OF CHEMISTRY AND METALLURGY

PROFESSOR ROCKWOOD; Mr. LINCOLN, Mr. BRYDEN

46. GENERAL CHEMISTRY—This is taught by lectures and recitations, in which the principles of the sciences are considered as well as its technical applications. The chemistry of both non-metals and metals is included. Freshman year, second semester, three hours each week. Mr. BRYDEN.

48. ANALYTICAL CHEMISTRY—A laboratory course, the object of which is to familiarize the student with chemical manipulations, also the properties of the most important metallic compounds. Freshman year, second semester, five hours a week. Mr. LINCOLN and Mr. BRYDEN.

65b. DENTAL METALLURGY—The lectures treat of the separation of the metals from their ores, their refining, and the properties of those most used in dentistry, also the preparation, properties and methods of working dental alloys, including the nature, manufacture and testing of amalgams. Junior year, second quarter, three lectures each week. Mr. BRYDEN.

67b. PRACTICAL DENTAL METALLURGY — This consists of the laboratory study of the metals most commonly used in dentistry, their physical properties and chemical chang-



es, particularly those produced by the action of heat. Opportunity is afforded for making and testing amalgam alloys and for learning the methods of refining gold, silver and platinum. Junior year, second quarter, five hours each week. Mr. BRYDEN and Mr. LINCOLN.

## DEPARTMENT OF DENTAL MATERIA MEDICA AND THERAPEUTICS

PROFESSOR CHASE; PROFESSOR BREENE; MR. HALL

1. ORGANIC DENTAL MATERIA MEDICA—The course is introduced by definitions, and a discussion of routes and modes of administering drugs, dosage, classification of official preparations, and prescription-writing, including the subject of incompatibilities. Following such general topics, organic drugs are taken up in a natural order of grouping. Freshman year, second semester. Two lectures and one recitation each week. Professor CHASE.

2. ORGANIC AND INORGANIC DENTAL MATERIA MEDICA—The preceding course is completed, followed by the consideration of drugs of inorganic origin. As in course 1 the drugs will be grouped with reference to some dominant or characteristic action. Thus are grouped drugs affecting the nervous system, the heart and circulatory system, the respiration, etc. The prescription work of the preceding course is carried forward and perfected by means of exercises and drill in writing same. Toward the close of the semester a general review is given. Junior year, first semester. Two lectures and one recitation a week. Professor CHASE.

3. PHARMACOLOGY—In order to familiarize the student with the action of the more important drugs used in his profession a demonstration course in pharmacology will be given during the junior year. Mr. HALL.

4. DENTAL THERAPEUTICS—In addition to the foregoing the members of the junior class will be required to attend a special course in dental therapeutics wherein will be presented those drugs which are of special use to the practicing dentist. Junior year, second semester. One lecture each week. Professor BREENE.

5. DENTAL THERAPEUTICS—This course is a review of the work given in the junior year, with additional instruction in clinical therapeutics. This gives the student a thorough understanding of practical methods of treatment.

The application and prescribing of remedies for the prevention as well as the cure of diseased conditions is demonstrated by the instructors in charge of the infirmary.

Senior year, first and second semesters. One lecture each week with recitations. Professor BREENE.

6. MEDICAL LATIN—Those who have had but little opportunity to study Latin previous to entering upon their dental education will be afforded an opportunity in this course for special drill, with the view to acquiring such a knowledge as must be in the possession of the accurate prescription-writer. It includes the work outlined in any elementary treatise of Latin, and, in connection with same, work in prescription-writing. In the first semester the grammar is specially studied. Therein are found those principles of Latin etymology and construction which are essential to an intelligent understanding of the terminology of pharmacy and dentistry. In the second semester the study of the grammar is continued, special attention being given to the pharmacopoeial nouns and anatomical terms. The prescription is taken up, its definition, synthesis, formulæ, form, grammatical construction, language, and analysis being studied. A review of the entire work completes the course. First semester, freshman year. Two hours each week.

7. HYGIENE—A course of lectures upon this subject will be delivered during the junior year, in which will be discussed all matters pertaining to both public and private hygiene. The subject will be illustrated by means of maps and models showing different styles of machinery for filtration of potable waters—discussing also questions pertaining to their source, etc. Also the results of analyses of potable waters from private wells will be presented with their conclusions, etc. The results of analyses of food-stuffs will be given and all other matters affecting the public health. Professor CHASE.

## DEPARTMENT OF HISTOLOGY AND EMBRYOLOGY

PROFESSOR WHITEIS; MR. HOOVER, DR. BLYTHE, DR. STARBUCK, MR. BOOTS

The department of histology and embryology occupies the entire second floor of the newly completed medical laboratory building. This building has been designed with special reference to the requirements of microscopical work. North and east exposures, ample room, and unobstructed light give ideal conditions for this line of work. The laboratories of this department consist of two large rooms for general class work, a special laboratory equipped for advanced research work, preparation room containing a complete stock of reagents, human tissues and those of lower animals, appliances such as microtomes for brain sections, paraffin and celloidin work, paraffin bath, electric motors with apparatus for preparing sections of teeth, bone, etc.

In connection with the laboratories are rooms devoted to a library, containing the latest books and journals pertaining to histology and embryology, a museum containing alcoholic specimens, and several thousand microscopic slides of stained and injected adult and embryonic tissues.

Classes are divided into small sections and a sufficient number of demonstrators are employed so that each student may have individual attention.

The illustrative material consists of charts, diagrams, models and black-board drawing. Each student prepares for himself a complete series of 150 permanent specimens, illustrating the microscopic anatomy of the human body.

The most important methods in the technique of fixing, hardening, and staining tissues will be taught, including the celloidin and paraffin methods, serial sectioning, injection methods, etc.

Each student is provided with a compound microscope and individual locker.

The lecture room is directly off the laboratories. It has seating capacity of 250 and is provided with the modern type of stereopticon, charts, and other appliances necessary to illustrated lectures.

1. THE HISTOLOGY OF CELLS AND TISSUES—The first

work of the course is on the structure and manipulation of the microscope. It is followed by a consideration of the classification and action of stains. Cell structure, as seen in the simpler forms of plant and animal cells, is first studied, then the more highly differentiated animal cells. After this the histology of the animal tissues is taken up. Freshman year, second semester, first quarter.

Three lectures and one recitation each week. Professor WHITEIS.

Freshman year, second semester, first quarter.

WHITEIS, Mr. HOOVER, Dr. BLYTHE.

2. THE HISTOLOGY OF THE DIGESTIVE TRACT, GENITO-URINARY TRACT, AND RESPIRATORY TRACT—Freshman year, second semester, first quarter.

Three lectures and one recitation each week. Professor WHITEIS.

Laboratory work four hours each week. Professor WHITEIS, Mr. HOOVER, Dr. BLYTHE.

3. THE HISTOLOGY OF THE SKIN AND NERVOUS SYSTEM—Freshman year, second semester, second quarter.

Three lectures and one recitation each week. Professor WHITEIS.

Laboratory work four hours each week. Professor WHITEIS, Mr. HOOVER, Dr. BLYTHE.

4. SPECIAL HISTOLOGY—A course on the embryology and histology of the teeth. Junior year, second semester, second quarter. Laboratory work, two hours each week.

5. LABORATORY TECHNIQUE—An optional course. Freshman year, second semester, second quarter. Two hours each week. Professor WHITEIS, Mr. HOOVER, Dr. BLYTHE.

6. ADVANCED WORK FOR A DEGREE IN THE GRADUATE COLLEGE—As a prerequisite to advanced work in this department the student will be required to possess a good working knowledge of both the methods and the subject matter of general histology and embryology. He will be assigned a private laboratory and offered such opportunities as the general laboratory and library afford. The department will supply the necessary materials in the way of tissues and reagents.

Two courses are offered as follows:

1. THE EYE—The histology of its tissues, considered in relation to both their phylogenetic and their ontogenetic development. The structure and development of the retina will be especially studied.

2. THE EAR—The investigation will proceed along the same lines as in the preceding course.

Throughout the year, hours to be arranged. Professor WHITEIS.

#### DEPARTMENT OF PATHOLOGY AND BACTERIOLOGY

PROFESSOR ALBERT; DR. EGDAHL, MR. BYRNES, MR. QUAIFF,  
DR. DECKER, DR. CHRISTIANSEN, MR. RICH-  
ARDS, MR. SCHENCK, MR. MEENTS

The department of pathology and bacteriology occupies the rooms on the third floor of the new laboratory building of the College of Medicine. This floor has two large laboratories for the general work of the department, one large room for the special bacteriological work connected with the Iowa State Board of Health, one photographic room, one large room for the pathological museum with twelve places for students doing research work or carrying on original investigations, and five small rooms for office, preparation and other special purposes.

All of the laboratories are well-lighted, completely furnished and thoroughly equipped with new microscopes of the most modern type, and all apparatus necessary, for carrying on any kind of investigation in the field of pathology and bacteriology. Each student is provided with a special composite-topped table, a microscope, a locker, and the necessary staining reagents.

The course in pathology and bacteriology extends through the junior year, and is presented by means of lectures, recitations, demonstrations and laboratory work. The lectures are illustrated by means of drawings, charts, and the Zeiss epidiascope, an instrument for the projection of microscopic slides, lantern slides and opaque objects, such as museum preparations, charts, atlases, illustrations from text books, etc. These objects are projected on a screen many times enlarged. Preparations from the medical museum and fresh specimens derived from post-mor-



tem examinations and the university clinics are also used for illustration. The laboratory work comprises a thorough drill in pathological and bacteriological technique, in the preparation and study of microscopical specimens of the various diseased conditions that occur in the human tissues and of all of the more important micro-organisms.

26. BACTERIOLOGY—A didactic recitation, demonstration and laboratory course, which includes the preparation of artificial culture media, the cultivation of micro-organisms, and their separation by means of plate cultures, the staining, recognition, and diagnosis of the different pathogenic micro-organisms as they are related to the various infectious processes. Special attention is given to the micro-organisms of the buccal cavity and their relation to the various infectious processes of adjacent tissue.

Junior year, three hours each week during the first semester. Professor ALBERT, Dr. EGDAHL, Mr. BYRNES, Dr. DECKER.

27. GENERAL PATHOLOGY—A didactic, recitation and demonstration course including the etiological factors in disease processes, the disturbances of circulation and nutrition, inflammation, atrophy, degeneration, infiltration, necrosis, hypertrophy, and allied subjects.

Junior year; one hour a week during the first quarter of the second semester. Professor ALBERT.

28. TUMORS AND SPECIAL PATHOLOGY—A didactic, recitation and demonstration course, including all forms of tumor formations, and the various disease conditions which occur within or about the oral cavity, as well as pathological conditions in other parts of the body, such as the gastrointestinal tract, the urinary tract, etc., which by the disturbances of metabolism which they produce, effect a change in the oral tissues.

Junior year; one hour each week during the second quarter of the second semester. Professor ALBERT.

29. PATHOLOGICAL HISTOLOGY—A laboratory course in general pathology, tumors, and special pathology, which is illustrative of the didactic lectures, comprising the preparation and study of slides, showing the general pathological changes that occur in human tissue, a complete collection

of tumors, and special diseased conditions of the oral cavity and adjacent structures.

Special attention is given to the drawing of the microscopic specimens. To test the knowledge of the student, reviews of unknown specimens are given at different times during the course.

Junior year, two hours each week during the first semester. Professor ALBERT, Dr. EGDAHL, Dr. DECKER, Mr. SCHENCK.

### COMPARATIVE ODONTOGRAPHY

PROFESSOR NUTTING

A general view of the dental organs of animals affords many points of practical interest to the dental student, and throws light on some perplexing questions that arise in connection with peculiarities of the human teeth. Such a view is afforded by this course of lectures. Particular attention is paid to the various mechanical contrivances by which Nature has met special dental problems. In addition to this general discussion of the teeth of animals, some attention is paid to the embryology and histology of these organs. A special feature of the course is a demonstration, by means of projection of the actual slides, of some obscure points regarding the vascular supply of the teeth and peridental membrane. This is made possible by means of a series of preparations by which sections of teeth, including the pulp and other soft structures, are made without decalcification.

The course is amply illustrated by specimens from the natural history museum, charts, and lantern slides.

Second semester, senior year.

### DENTAL JURISPRUDENCE

PROFESSOR GREGORY

The state law regulating the practice of dentistry is fully discussed. The general principles of legal liability will be explained and suggestions are made as to the legal rights of the practitioner with reference to his compensation.

## PRACTITIONERS' COURSE

This course is planned for the convenience and benefit of practitioners. It will be optional with those entering the course as to what studies they will pursue, and what methods in practical work they may take up. The curriculum will be arranged more especially to give a thorough course in pulp and abscess treatment and other pathological conditions of the oral cavity. In addition to this, detailed instruction will be given in bridge and crown work, continuous gum dentures, porcelain fillings, and in the methods of working metals by all the different operations which the practitioner is called upon to perform.

## REQUIREMENTS FOR ADMISSION TO PRACTITIONERS' COURSE

Anyone in reputable practice may enter this course. Graduates of this college will be admitted on the payment of the matriculation fee only. Graduates of other reputable dental schools will be admitted on the payment of the matriculation fee and \$10.

A full corps of demonstrators in all subjects has been appointed to attend to the duties pertaining thereto. The service of several additional clinical instructors will be obtained during the session, each a specialist.

## FEES FOR PRACTITIONERS' COURSE

Matriculation fee.....	\$10.00
Tickets, including certificates.....	25.00
Laboratory fee.....	6.00
	<hr/>
	\$41.00

Other post-graduate work, such as porcelain, orthodontia, etc., may be arranged for upon application to the faculty.

## DENTAL ASSISTANTS' COURSE

A training school for dental assistants has been authorized by the board of regents. The course will extend through one year of nine months, beginning and ending

with the regular dental year. The fee for tuition is \$15 for the course, of which \$7.50 is payable on the date of registration, and the balance at the opening of the second semester. Students who have not previously matriculated will pay the regular matriculation fee of \$10. Candidates for admission to this course must possess a common school education, and must present two letters of recommendation as to their capabilities, qualifications, and moral character. No other examination for admission will be required. This course will be both didactic and practical, thorough instruction being given in operative and prosthetic technic, therapeutics, pathology, and dental anatomy; there are also special lectures and work relative to the duties of an assistant both at the operating chair and in the laboratory.

An important additional feature of this course will be the special training of young women with a view to fitting them to perform the duties of dental assistant nurses.

In this new and promising field there is at present a demand for persons whose capabilities and training fit them for the work. The remuneration is good and the employment of a much less arduous character than that required of a medical nurse. The hours are short and regular, while surroundings are usually such as appeal to persons of culture.

Credits obtained in this course will be allowed to those desiring to attend and complete the regular dental course, providing the requirements are fulfilled as provided for the regular dental course.

#### DENTAL MUSEUM AND LIBRARY

Members of the dental profession, dental students, and all persons interested, are invited to contribute to the museum such specimens of malformation, normal or diseased conditions as will serve for illustration of dental teaching; also to the library any books, pamphlets, journals, or other reading matter pertaining to dental subjects. Such contributions will be duly labeled with the donor's name and carefully preserved.

## REQUIREMENTS FOR GRADUATION FOR SESSION OF 1905-1906

The candidate for graduation must be of legal age and of good moral character; must present to the faculty a satisfactory case of artificial dentistry; also the required clinical record of practical operations on the natural teeth; must sustain a satisfactory examination in the branches taught, and must prove his fitness for the practice of dentistry.

The time of study must include attendance on three courses of lectures, the last of which must be at this college.

The deportment during the course must have been unexceptionable, and attendance upon all lectures, clinics, and other instruction in the course must have been in accord with the requirements of the college.

Members of the senior class must notify the dean of the faculty in writing during the second week of April of their intention of becoming applicants for the degree of Doctor of Dental Surgery, at the same time presenting a certificate from the treasurer of having paid all fees, and a certificate of legal age and good moral character.

Attendance on any course of lectures in other recognized dental colleges having similar requirements will be accepted as equivalent to a corresponding course in this college. Graduates of medical colleges will be required to attend two full years of instruction in this college, including all laboratory and clinical requirements, and all lectures, before applying for graduation.

Having complied with the requirements of this college the faculty will recommend the candidate to the board of regents as entitled to receive the degree of Doctor of Dental Surgery.

## TUITION

Every student, before entering any department of the university is required to pay a matriculation fee of ten dollars. This fee is required the first year only.

The tuition charges in the College of Dentistry are



twenty-five dollars a semester, and are due at the opening of each semester. A student registered in more than one college of the University is required to pay the tuition of the college having the higher or highest rate of tuition of the colleges in which he is registered, and is then granted free tuition in any other college of the University.

Tuition fees are in no case remitted.

Every student, before graduating or receiving any degree in any college of the University, is required to pay a diploma fee of ten dollars for each degree he receives.

There are no extra fees whatever, but a deposit of \$3.00 must be made to cover breakage and loss before beginning work in the chemical laboratory. All material used in the laboratory and operative technic work, except gold, is furnished by the college.

The above statement of the fee is now in effect, and will be understood to apply to all students in the college, entirely irrespective of the date of registration.

COMPARATIVE STATEMENT OF STUDENT'S EXPENSES FOR THE  
ACADEMIC YEAR, SEPTEMBER TO JUNE

	Low	Average	Liberal
Matriculation Fee (First year only)	\$ 10.00	\$ 10.00	\$ 10.00
Tuition Fees.....	50.00	50.00	50.00
Board (36 weeks).....	63.00	99.00	126.00
Room, heated and lighted, ( $\frac{1}{2}$ )...	36.00	45.00	54.00
	\$149.00	\$204.00	\$240.00

The above estimates do not include such incidentals as books, instruments, clothing, laundry or membership in societies, some of which are luxuries and all of which vary greatly with the means and habits of the individual.

### TEXT-BOOKS AND BOOKS OF REFERENCE

These can be obtained at the bookstores in Iowa City. Dealers give a discount of from ten to twenty per cent. The following are recommended by the faculty:

Operative Dentistry: American Text-book of Operative Dentistry, Ottolengui, Flagg's Plastics, Johnson's Principles and Practice of Filling Teeth.

Prosthetic Dentistry: Essig's Prosthetic Dentistry, Richardson's Mechanical Dentistry, Evan's Artificial Crown and Bridge Work.

General Pathology: Green, Stengel, Zeigler, Delafield, Pruden.

Bacteriology: Abbott, Crookshank, McFarland.

Histology: Piersol, Schaefer, Stirling, Klein.

Oral Pathology and Hygiene: Green, Garretson's Oral Surgery, Wilson on Hygiene, Marshall's Diseases of Face, Mouth, Jaws, Barrett's Oral Surgery, Burchard's Dental Pathology.

Chemistry: General Chemistry, Bloxam, Remsen; Qualitative Analysis, Rockwood.

Metallurgy: Essig, Hodgen.

Materia Medica: White and Wilcox, Potter.

Therapeutics: Gorgas, Hare, Long.

Dental Therapeutics: Gorgas, Eli Long, Borland.

Anatomy: Gray (13th edition), Holden's Landmarks, Quain (10th edition), Holden's Osteology, McClellan's Regional Anatomy, Treve's Applied Anatomy.

Physiology: Landois and Sterling, Kirk, Stewart.

Orthodontia: Angle, Guilford.

Dental Anatomy: Black, Broowell.

Dictionaries: Harris, Dunglison, Thomas, Gould, Borland.

## GENERAL INFORMATION

The office of the registrar is open every day in the year for students desiring to matriculate and complete registration.

Seats will be assigned to classes in the order of registration at the University.

Operating chairs will be assigned to the senior class in the order of registration at the University, but this privilege will be forfeited unless the student is in attendance at the opening of the session.

Students should make their arrangements to be in attendance on the first day of the session, as the faculty cannot adjust their plans to the tardy arrival of students

by wasting time on unimportant lectures at the beginning. Promptness at the beginning of the term is very essential.

Members of the profession who receive this announcement are requested to notify the dean of any change in address. They will also confer a favor by sending the names of other dentists practicing in the towns in which they reside. For further information apply to William S. Hosford, Dean of the College of Dentistry, Iowa City, Iowa.

# THE COLLEGE OF DENTISTRY

## DEGREES CONFERRED JUNE, 1904

Addington, Earl	McCulla, Roy
Bidwell, Everett	McIntosh, Walter Scott
Brock, Albert Jay	McKibbin, George Paul
Burns, John Joseph	McVay, Homer Reese
Cole, Alvernus Humphrey	Magruder, George Raymond
Cutler, Earle VanZile	Maresh, Reginald
Dieffenbacher, Bemper Letson	Moss, William George
Duncan, Alvia Lee	Munger, Milo William
Eberhart, Frank Vaughan	Nies, George Henry
B. S., 1902	Pelton, Henry Clark
Erb, Benjamin H.	Rawhouser, Charles David
Fear, Milo Francis	Shontz, Robert Ivan
Frahm, Frederick William	Starbuck, William Ray
Gardner, Charles Edward	Story, William Henry
Goldthwait, Guy Garfield	Taylor, Edwin Scott
Hasek, Frank Vaclav	Thompson, Earl G.
Hemsworth, Leroy Clifton	Tinker, Francis Enos
Hinsdale, Henry Vaughan	Vos, John
Huff, Fay Leslie	Watros, Ray Alfonso
Humphrey, William Francis	Westenhaver, Earl H.
Irwin, James Newton	Wiler, Wesley David
Kennedy, James	Woodruff, Iyman Wallace
Kulp, Charles Joseph	Wyant, Arthur C.
McConnaughey, Ralph Otis	

## DEGREES CONFERRED FEBRUARY 22, 1905

Miller, Catherine Marguerite, Rugh, Frederick Walter

## GRADUATE STUDENT IN DENTISTRY

Vos, John  
D. D. S., 1904

Iowa

## THIRD YEAR

Adams, Waldo Johnson	Oregon
Adams, William Claude	Oregon
Arnold, John Rubi	Iowa
Black, Amy Thornton	Iowa
Brown, Mark D.	South Dakota
Christie, Bert Lee	Iowa
Crawford, Guy	Iowa
Creighton, D. Murto	Iowa
DeMots, Henry	Iowa
Greenawalt, Richard Albert	Iowa
Heykens, Herman	Iowa
Hurst, Thomas Henry	Iowa
Jeffers, Lyle Lawson	Iowa
Leach, Don Sherman	Iowa
McCord, Alexander Ichabod	Iowa
†Miller, Catherine Marguerite	South Dakota
Miller, Thomas Jefferson	Iowa
Molsberry, Frank Roland	Iowa
Myler, Melvin Wesley	Iowa
Polley, Lovette Morse	Iowa
†Rugh, Fred Walter	Iowa
Seydel, Robert Ashable	Iowa
Stryker, Clarence Andrew	Iowa
Vail, Glenn Winfred	Iowa
Whitsell, Loyd Lane	Iowa

## SECOND YEAR

Damon, Robert Enoch	Iowa
Davis, Elmer Richard	Iowa
Farlien, Jacob Anderson	Iowa
Frank, Arthur Jacob	Iowa
Gibbs, Harry Emmons	Iowa
Horel, Charles Sidney	Iowa
Humeston, Fred Lee	Iowa
Hunsicker, Claude Linvill	Iowa
Knapp, Karl Wilson	Iowa

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† Graduated Feb. 26, 1905.



Lahman, Rush Clark	Iowa
Lister, Clarence Sylvester	Iowa
Moravec, Arthur John	Iowa
Payne, Charles Burton	Iowa
Roosevelt, Theodore Tasheira, Jr.	Iowa
Schultz, Emery Jesse	Iowa
Schwin, Frederick William	Iowa
Scovel, John William	Iowa
Settell, Ansel Reuben	Iowa
**Thomas, Cleveland Langrange	Iowa
VanDoren, Orie Elmer	Iowa
**Ward, Jesse	Illinois
*Wright, Charles Thomas	Iowa

## FIRST YEAR

Bettice, Daniel	Iowa
Black, Guy Cameron	Pennsylvania
*Bridges, John Morris	Iowa
Carl, Cecil Earl	Iowa
Check, Frank James, Jr.	Iowa
**Crosby, Lucius	Iowa
Davis, Walter Clarence	Iowa
Doely, Owen Eugene	Minnesota
Downs, George Almond	Iowa
*Drees, Lambert John	Iowa
Duncan, Harley Dale	Iowa
Farnsworth, Frank Wilkinson	Iowa
*Ferguson, Josiah Arthur	Iowa
Graham, George Dudley	Iowa
Greene, Emmett Amos	Iowa
*Haselton, Harve Barden	Iowa
Heit, Charles Lee	Illinois

Ph. G., 1903, Highland Park College

Hemingway, John Dexter	Iowa
Hillweg, Charles Ulysses	Iowa
Holmquist, David Elven	Iowa
***Horner, Louis Hurst	Iowa
*Jenkel, Paul Frederick	Iowa

\*Not in attendance.

\*\*Transferred from another college.

\*\*\*Irregular.

Joynt, Robert James	Iowa
Klaffenbach, Arthur Otto	Iowa
Lee, Herbert Wayne	Illinois
Leech, Chester Raymond	Iowa
Lockard, Adelbert	Iowa
McElderry, Chester Arthur	Iowa
*McKeon, George Leo	Massachusetts
McLeod, Earl Angus	Iowa
McMartin, Kenneth	Iowa
Meyers, Johannes Henry	Iowa
Miller, Glen Ward	Iowa
Moravec, Edward L.	Iowa
• Mueller, Carl William	Illinois
Neil, Fred A.	Iowa
Nye, Walter Sewell	Iowa
Percy, Roe Ernest	Iowa
Porter, Van Alex	Iowa
Robertson, Clarence Walker	Iowa
Rosendahl, Peter Oscar	Minnesota
Saville, Burr George	Iowa
Shouse, Arthur Chester	South Dakota
Stealy, Elza Rollin	South Dakota
B. Ped., 1903, Colorado State Normal School	
Stouffer, Clyde Homer	Iowa
B. A., 1904, Western College	
Swartzendruber, Joe Ray	Iowa
Towne, Ray Salem	Iowa
Vane, Lumir Frank	Iowa
Ward, Griffy Golding	Iowa
Washburn, Roy Booth	Wisconsin
Weir, Charles Richard	Iowa
Wells, Ira Heydon	Iowa
Wilkinson, Charles William	Iowa
Wilson, James Matthew	Iowa
Ph. G., 1899, Highland Park College	
Wood, Harry T.	Iowa
Ziegler, Winfield Scott	Iowa

## UNCLASSIFIED

Harrington, Charles Alvin	Iowa
Ott, LeRoy Theodore	Iowa

## DENTAL ASSISTANT'S COURSE.

Kennedy, C. Lillian

Iowa

## SUMMARY

Graduate student.....	1
Third year.....	25
Second year.....	22
First year.....	56
Unclassified .....	2
Dental Assistants' Course.....	1
Total .....	<hr/> 107

# DENTAL CLINICS

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## STATISTICS—FOR THE YEAR 1904-1905

No. of patients treated in all departments.....10482

### OPERATIVE DEPARTMENT

No. of fillings—gold.....	2097.
No. of gold inlays.....	152
No. of porcelain inlays.....	98
No. of fillings—amalgam.....	3791
No. of fillings—cement.....	1194
No. of pulp cases.....	1175
No. of root fillings.....	1324
No. of cleaning cases.....	832
No. of pyorrhœa cases.....	88
No. of extraction cases.....	510
No. of abscess cases.....	338

### PROSTHETIC DEPARTMENT

No. of full dentures.....	123
No. of full dentures—metal.....	24
No. of partial dentures.....	123
No. of partial dentures—metal.....	23
No. of crowns.....	1683
No. of porcelain crowns.....	297
No. of pieces of bridge work.....	201
No. of artificial velums.....	2

### ORTHODONTIA DEPARTMENT

No. of sets of teeth regulated.....	50
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### ORAL SURGERY DEPARTMENT

No. of cases necrosis.....	12
No. of cases maxillary sinus.....	6
No. of cases hare lip.....	6
No. of cases cleft palate.....	3

*Specimen Programme of the College of Dentistry*  
FRESHMAN YEAR

Hour	Monday	Tuesday	Wedn'day	Thursday	Friday	Saturday
8 to 9	Physi'l'gy		Dental Anatomy		Histology	Chemistry
9 to 10	9:00 to 11:00 <i>Chemical Laboratory</i>	Physi'l'gy	Histology	8:00 to 11:00 <i>Sec. I Dental Anatomy Technic</i>	9 to 12 <i>Chemical Laboratory</i>	
10 to 11		Anatomy	9:45 to 10:45 <i>University Assembly</i> Prosthetic Dentistry			Physi-ology
11 to 12	Histology	Chemistry	Materia Medica	Anatomy Recitation		
1 to 5	1:00 to 4:30 <i>Sec. I Prosthetic Technic</i>  <i>Nov. 5 to Dec. 22 Dental Anatomy Technic</i>	1:00 to 4:30 <i>Sec. II Prosthetic Technic</i>  <i>Nov. 5 to Dec. 22 Dental Anatomy Technic</i>	1:00 to 4:30 <i>Sec. I Prosthetic Technic</i>  <i>Nov. 5 to Dec. 22 Dental Anatomy Technic</i>	1:00 to 4:30 <i>Sec. II Prosthetic Technic</i>  <i>Nov. 5 to Dec. 22 Dental Anatomy Technic</i>	1:00 to 4:30 <i>Sec. I Dental Anatomy Technic</i>	

Anatomical Laboratory 3 to 5:30. Materia Medica second semester.  
Histology January 4th.

JUNIOR YEAR

Hour	Monday	Tuesday	Wedn'day	Thursday	Friday	Saturday
8 to 9	Chemistry	Prosthetic Dentistry	Materia Medica	Materia Medica	<i>Special Pathology</i>	<i>Oral Surgery</i>
9 to 10	Anatomy	Operative Dentistry	Anatomy	Physi-ology	Anatomy	Chemistry
10 to 11	Physi'l'ogy	<i>Chemical Laboratory</i> 10 to 12	9:45 to 10:15 <i>University Assembly</i> Ortho-dontia	<i>Bacteri-ological Laboratory</i> 10 to 12	Physi-ology <i>Recitation</i>	
11 to 12	Bacteri-ology		Physi-ology		10 to 12 <i>Chemical Laboratory</i>	
1 to 5	1:00 to 5:00 <i>To Nov. 5 Operative Technic</i>  1:00 to 5:00 <i>Prosthetic Technic</i> <i>Nov. 5 to Dec. 22</i>	1:00 to 5:00 <i>To Nov. 5 Operative Technic</i>  1:00 to 5:00 <i>Prosthetic Technic</i> <i>Nov. 5 to Dec. 22</i>	1:00 to 5:00 <i>To Nov. 5 Operative Technic</i>  1:00 to 5:00 <i>Prosthetic Technic</i> <i>Nov. 5 to Dec. 22</i>	1:00 to 5:00 <i>To Nov. 5 Operative Technic</i>  1:00 to 5:00 <i>Prosthetic Technic</i> <i>Nov. 5 to Dec. 22</i>	1:00 to 5:00 <i>Prosthetic Technic</i>	1:00 to 5:00 <i>Prosthetic Technic</i>

General Therapeutics second semester. Anatomical Laboratory each day 3 to 5:30. Chemistry 4th quarter. Orthodontia Technic second semester. Special Therapeutics to be announced. Special Histology 4th quarter.



## SENIOR YEAR

Hour	Monday	Tuesday	Wedn'day	Thursday	Friday	Saturday
8 to 9	Operative Dentistry	<i>Special Therapeutics</i>		Prosthetic Dentistry	Prosthetic Dentistry	
9 to 10	Operative Dentistry	Regional Anatomy	Clinical Dentistry 9:45 to 10:15 <i>University Assembly</i>		<i>Special Pathology</i>	
10 to 11		Othodontia		10 to 12 <i>Bacteriological Laboratory</i>	<i>Special Pathology</i>	9 to 12 <i>Infirmary</i>
11 to 12	Bacteriology	<i>Special Lectures</i>	<i>Special Lectures</i>		<i>Special Lectures</i>	
1 to 5	1:00 to 5:00 <i>Infirmary</i>	1:00 to 5:00 <i>Infirmary</i>	1:00 to 5:00 <i>Infirmary</i>	1:00 to 5:00 <i>Infirmary</i>	1:00 to 5:00 <i>Infirmary</i>	1:00 to 5:00 <i>Infirmary</i>

Pathology and Pathological Laboratories second semester.

Special Lectures to be announced.

Oral Surgical Clinic Saturday, 9:30 A. M.

Comparative Odontography 4th quarter,

Dental Jurisprudence 4th quarter.

INSTRUMENTS AND MATERIAL REQUIRED BY  
FRESHMAN STUDENTS

The full list is absolutely required of every student.  
Instrument numbers according to S. S. White catalogue.

- 1 pair each C. and B. shears, curved and straight, No. 6.
- 1 pair curved crown shears, No. 11.
- 1 each ivory chisels, right and left.
- 1 pair collar pliers, No. 118.
- 1 pair contouring pliers, No. 115.
- 1 horn mallet, straight.
- 1 riveting hammer, B.
- 1 mouth blow-pipe, 12-inch, nickel plated.
- 3 pairs solder tweezers, B, C and E.
- 1 4-inch half round plate file, cut No. 2.
- 1 4-inch half round plate file, cut No. 4.
- 1 4-inch round plate file, cut No. 2.
- 1 6-inch flat plate file, cut No. 3.
- 1 each 6 and 10-inch mill cut files.
- 1 double end half round vulcanite file, 8-inch.
- 1 round vulcanite file, 4-inch.
- 1 mechanical saw frame.
- 1 dozen assorted saws.
- 1 wax spatula No. 2.
- 1 plaster spatula No. 17.
- 1 each Kingley finishers, Nos. 1 and 3.
- 1 enamel chisel No. 4.
- 1 each ivory chisels, right and left.
- 1 articulator, Bonwill or Gritman.
- 1 plaster bowl, B.
- 1 each upper impression trays Nos. 21, 22, 23, Angle's pattern, and Nos. 2, 3, 12, regular patterns.
- 1 each lower impression trays Nos. 24, 25, 26, Angle's pattern, and Nos. 3, 11, 15, regular patterns.
- $\frac{1}{2}$  pound yellow wax, for base plates.
- $\frac{1}{2}$  pound modeling composition, No. 2.
- Whitney flask, iron.
- 1 flask wrench.
- 4 pounds babbit metal, Haskell's formula.
- 4 pounds counter-die metal.

- 1 Bailey moulding flask, large.
- 1 spool binding wire, small.
- 1 pin punch, nickel plated.
- 1 crown anvil.
- 1 small bench vise, detachable.
- 1 pound box powdered pumice stone.
- 1 pound box prepared chalk.
- 3 sheets sandpaper, Nos. 00,  $\frac{1}{2}$ , 1.
- 1 sheet crocus cloth.
- 1 felt wheel, No. 2, round edge.
- 1 felt wheel No. 2, knife edge.
- 1 felt wheel, No. 0.
- 1 felt cone, small, pointed,  $\frac{3}{4}$ -inch diameter.
- 1 felt cone, pointed, 1-inch diameter.
- 1 each brush wheels, Nos. 23, 77, 30.
- 1 carborundum wheel, No. 16, grit A,  $2\frac{1}{2}$ -inch  $\frac{1}{4}$ -inch thick.
- 1 carborundum wheel, No. 16, grit C,  $2\frac{1}{2}$ -inch,  $\frac{1}{4}$ -inch thick.
- 1 carborundum wheel, square edge stump, medium grit,  
 $\frac{5}{8}$ -inch diameter,  $\frac{1}{8}$ -inch thick, mounted on mandrel,  
 No. 303.
- 1 Bunsen burner, Franklin Educational Co.'s No. 291.
- 10 inches  $\frac{1}{4}$ -inch rubber tubing.
- 1 borax slate.
- 1 Watt's metal flask (optional).
- 1 common whetstone.
- 1 box Sam's soldering flux.
- 1 asbestos soldering block, with handle.
- 1 Melott's moldine outfit.
- 1 stick rouge.
- 2 ounces shellac varnish, with brush.
- 2 ounces collodion, with brush.
- 2 ounces Elliott's parting fluid, with brush.
- 1 Colton file cleaner.
- 1 Boley millimeter guage.
- 1 Reeses' crown soldering tweezers.
- 1 copper ladle, 3-inch.

(Probable cost, about \$33.00).

## OPERATIVE INSTRUMENTS AND MATERIALS REQUIRED BY JUNIOR AND SENIOR STUDENTS.

- 1 each S. U. I. amalgam instruments, Nos. 2, 3, 4.
- 1 each Arrington amalgam instruments, Nos. 8, 9.
- 1 set each Black's excavators and chisels, Nos. 2, 4, 5, 11, 14, 20, 22, 23, 26, 27, 33, 40, 44, 46, 51, 52, 53, 54, 63, 64, 65, 66, 73, 74, 79, 80, 82, 83, 84, 85, 86, 87, 88, 89, 93.
- 1 broach holder.
- $\frac{1}{2}$  dozen Young brooches, extra fine.
- $\frac{1}{2}$  dozen Young Aseptic brooches, assorted.
- $\frac{1}{2}$  dozen Donaldson's pulp canal cleaners No. 4.
- $\frac{1}{2}$  dozen Kerr's universal broaches, assorted.
- 1 flexible spring canal plugger, No. 3.
- 1 explorer, No. 3.
- 1 each scaler, Nos. 1, 3, 62.
- 1 each Allport's pyorrhœa instruments, Nos. 4, 6, 7, 14, 15, 14, 15.
- 1 each burnisher, Nos. 2, 33.
- 1 each plug trimmer, Nos. 31, 32.
- 1 Box strips, assorted.
- 1 disk tray (1400).
- 1 box extra fine cuttle-fish disks.
- 1 dental engine.
- $\frac{1}{2}$  gross cavity burs, assorted.
- 1 right angle.
- 2 dozen right angle burs, assorted.
- 1 Herbert's rotary burnisher, No. 2.
- 1 each plug finishing burs, Nos. 200, 224, 242.
- 1 each engine drills, Nos. 102, 169.
- 3 mandrels, No. 303.
- 1 each gem points, mounted, Nos. 12, 9, 6.
- 1 corundum cavity point, mounted No. 2.
- $\frac{1}{2}$  dozen carborundum wheels, assorted.
- 1 each soft rubber cups, Nos. 1, 2, 3.
- 1 box leather polishing wheels.
- 1 cement spatula, No. 22.
- 1 glass mixing tablet, No. 2.
- 3 spools floss silk, waxed.
- 1 hot air syringe with reinforced point, No. 16.

- 1 mouth mirror, No. 6, (magnifying).
- 1 all metal, self-filling water syringe.
- 1 college pliers, No. 11.
- 1 foil carrier (Perry), No. 12.
- 1 alcohol lamp, Nos. 1 or 2.
- 1 annealing tray for gold.
- 1 ounce absorbent cotton.
- 1 ounce spunk.
- 1 box 6-inch cotton rolls, assorted.
- $\frac{1}{2}$  yard rubber dam.
- 1 Brewer universal rubber dam clamp forceps.
- 1 Ainsworth rubber dam punch.
- 1 rubber dam holder, novel No. 4.
- 1 rubber dam weight, No. 3.
- 1 each Ivory dam clamps, Nos. 1, 2, 5, 7, 10, 11.
- 1 Arkansas stone in box.
- 1 "Every Day" mortar and pestle.
- 1 box tooth polishing brushes, assorted.
- 1 wood plugging mallet, No. 1.
- 1 thin ribbon saw.
- 1 each Bennett's automatic plugger points, Nos. 1, 2, 3, 4, 5, 7, 8, 10.
- 1 S. S. White automatic plugger point, No. 111.
- 3 automatic handles.
- 1 pair Case enamel cleavers.
- 1 pair gold foil shears, No. 8.
- 1 pair scissors, 6-inch, No. 27.
- 1 gum lance, No. 1.
- 1 bundle orange wood.
- 1 dozen  $\frac{1}{2}$ -ounce bottles (square).
- 3 office preparation bottles, No. 6.
- 1 box labels (medicine).
- 2 dozen large napkins.
- 1 dozen towels.
- 50 small doilies.
- 1 sheet thin matrix material.
- $\frac{1}{2}$  dozen disks, Vulcarbo disk.
- 1 separator (optional).
- 1 automatic plugger (optional).
- 1 carborundum wheel, No. 100, fine grit.



- 1 carborundum wheel, No. 101, medium grit.
- 1 carborundum wheel, No. 101, coarse grit.
- 1 carborundum wheel, No. 102, coarse grit.
- 1 carborundum wheel, No. 105, medium grit.
- 1 carborundum wheel, No. 121, medium grit.

Probable cost of the above set of instruments, complete, including dental engine, \$100 to \$125.

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## ALUMNI ASSOCIATION

### OF THE COLLEGE OF DENTISTRY

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#### OFFICERS FOR 1905-6

PRESIDENT, J. B. Pherrin, D. D. S., Central City, Iowa.

VICE-PRESIDENT, A. W. Starbuck, D. D. S., Iowa City, Iowa.

SECRETARY, E. A. Rogers, D. D. S., Iowa City, Iowa.

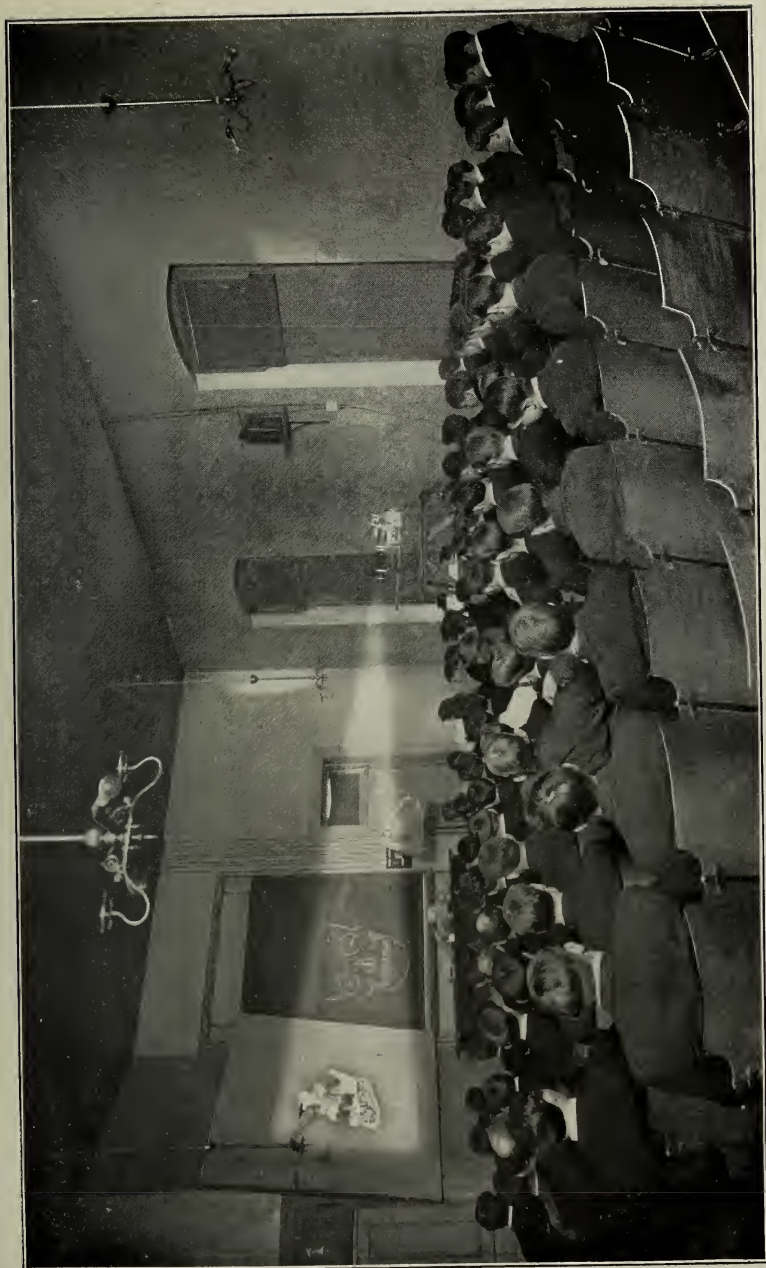
TREASURER, C. M. Work, D. D. S., Ottumwa, Iowa.

EXECUTIVE	{	R. S. BANDY, D. D. S., Tipton.
COMMITTEE		WM. S. HOSFORD, D. D. S., Iowa City.
		K. M. FULLERTON, D. D. S., Cedar Falls, Iowa.

The time of next meeting of the Alumni Clinic will be announced at a later date by the Executive Committee.

# INDEX

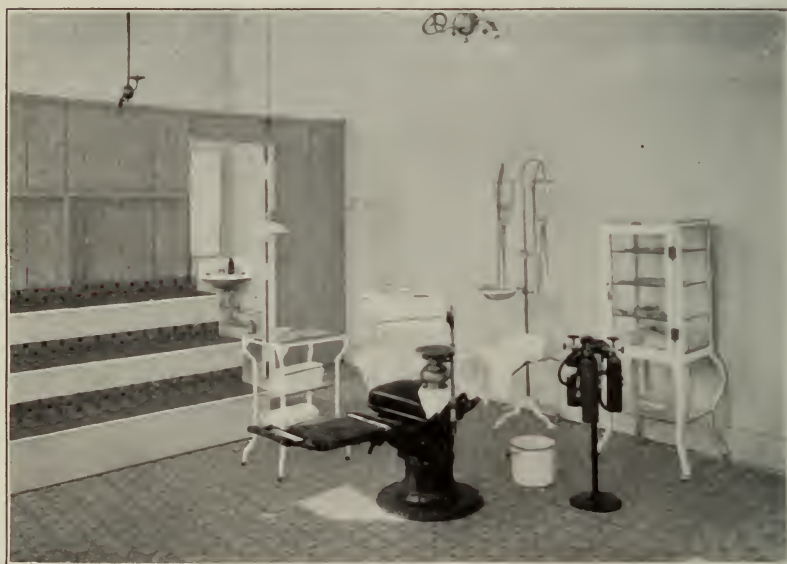
- Administrative Officers, 6
- Admission, Requirements for, 22, 27
- Advanced Standing, 24
- Alumni Association, 68
- Anatomy:
  - Dental, 31
  - General, 38
  - Regional, 37
- Association, The National Dental, 23
- Athletics and Physical Training, 16
- Bacteriology and Pathology, 46
- Blank Forms for Credits, 23
- Board of Regents, 5
- Books, 52
- Buildings, 12, 20
- Calendar, 3
- Chemistry and Metallurgy, 41
- Clinical Dentistry and Regional Anatomy, 37
- Clinics, 60
- Collections, Natural History, 14
- Combined Courses, 26
- Comparative Odontography, 48
- Comparative Expenses, Table of, 52
- Courses of Instruction, 30
- Courses, Combined, 26
- Credit Blanks, 23
- Dean of Women, 16
- Dental Anatomy, 31
- Dental Assistant's Course, 49
- Dental Jurisprudence, 48
- Dental Museum and Library, 50
- Dental Therapeutics, 30
- Departments:
  - Anatomy, 31, 37, 38
  - Bacteriology and Pathology, 46
  - Chemistry and Metallurgy, 41
  - Clinical Dentistry and Regional Anatomy, 37
  - Comparative Odontography, 48
  - Dental Jurisprudence, 48
  - Dental Therapeutics, 30
  - Embryology and Histology, 44
  - Hygiene, 33
  - Jurisprudence, Dental, 48
  - Materia Medica, 42
  - Metallurgy and Chemistry, 41
  - Odontography, Comparative, 48
  - Operative Dentistry, 30
  - Oral Pathology, Surgery, and Hygiene, 33
  - Orthodontia, 36
  - Pathology and Bacteriology, 46
  - Pathology, Oral, 33
  - Physiology, 39
  - Prosthetic Dentistry, 32
  - Regional Anatomy, 37
  - Surgery, Oral, 33
  - Therapeutics, 30, 42
- Embryology and Histology, 44
- Entrance Examinations, 25
- Equipment, 20
- Expenses, Comparative Table of, 52
- Faculty, 17
- Fees for Practitioner's Course, 49
- General Information, 12, 53
- Graduation, Requirements for, 51
- Histology and Embryology, 44
- Hospitals, 16
- Hygiene, 33
- Information, General, 12, 53
- Instruction, Course of, 30
- Instruments Required by Students, 63
- Jurisprudence, Dental, 48
- Laboratories, 14
- Lectures, Public, 8
- Libraries, 14, 50
- List of Students, 55
- Materia Medica, 42
- Metallurgy and Chemistry, 41
- Museum, Dental, 50
- National Dental Association, Rules of, 23
- Natural History Collections, 14
- Odontography, Comparative, 48
- Operative Dentistry, 30
- Oral Pathology, Surgery and Hygiene, 33
- Organization of University, 2, 12
- Orthodontia, 36
- Outline of Plan of Instruction, 30
- Pathology and Bacteriology, 46
- Pathology, Oral, 33
- Physiology, 39
- Plan of Instruction, 30
- Practitioner's Course, 49
- Admission to, 49
- Programme of Entrance Examinations, 25
- Programme, Specimen, 61, 62
- Prosthetic Dentistry, 32
- Publications, the University, 15
- Public Lectures, 8
- Reference Books, 52
- Regional Anatomy, 37
- Religious Influences, 15
- Requirements for Admission, 22, 27
- Requirements for Graduation, 51
- Rules of National Dental Association, 23
- Schedule of Studies, 28
- Self Support, 16
- Societies, 15
- Specimen Programme, 61, 62
- Students, List of, 55
- Studies, Schedule of, 28
- Text and Reference Books, 52
- Therapeutics, 30, 42
- Tuition, 51
- University Publications, 15
- Women, Dean of, 16



THE EAST LECTURE ROOM



THE PORCELAIN ROOM



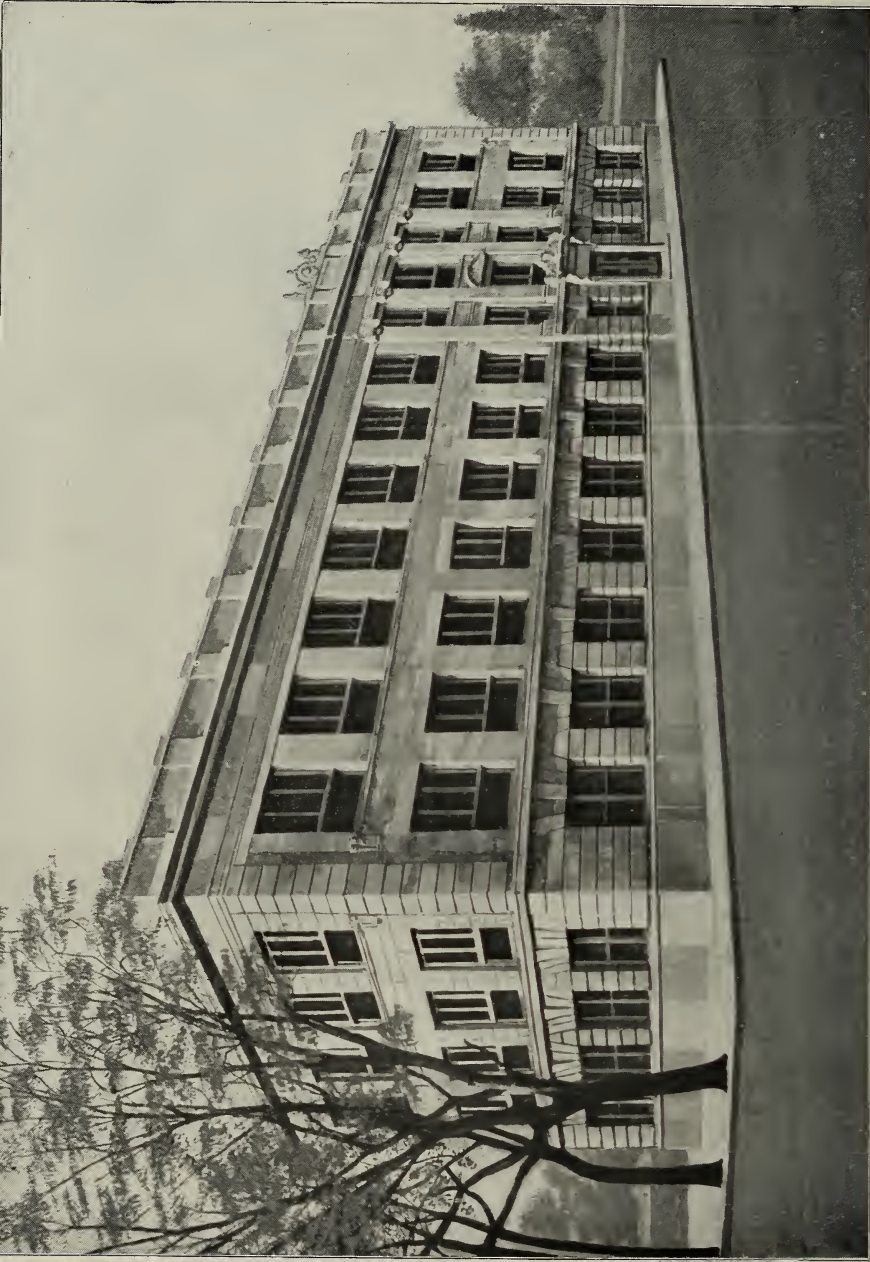
THE SURGICAL ROOM



THE PHYSIOLOGICAL LABORATORY







THE LABORATORY HALL

This building contains the General and Clinical Laboratories for the Departments of Physiology, Pathology, Bacteriology, Histology and Embryology.





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